TOSHIBA

FILE NO. 030-200408

SERVICE MANUAL

# Colour Television

ZP38 Chassis

**32ZP48P**
**36ZP48P**

Jul. 2004 (YC/X)

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# CHAPTER 1 GENERAL ADJUSTMENTS

## SAFETY INSTRUCTIONS

**WARNING**: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

### X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 16)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

### SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

### PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

**WARNING**: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF SERVICE MANUAL.

# SET-UP ADJUSTMENT

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

**Note:** The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

## COLOR PURITY ADUSTMENT

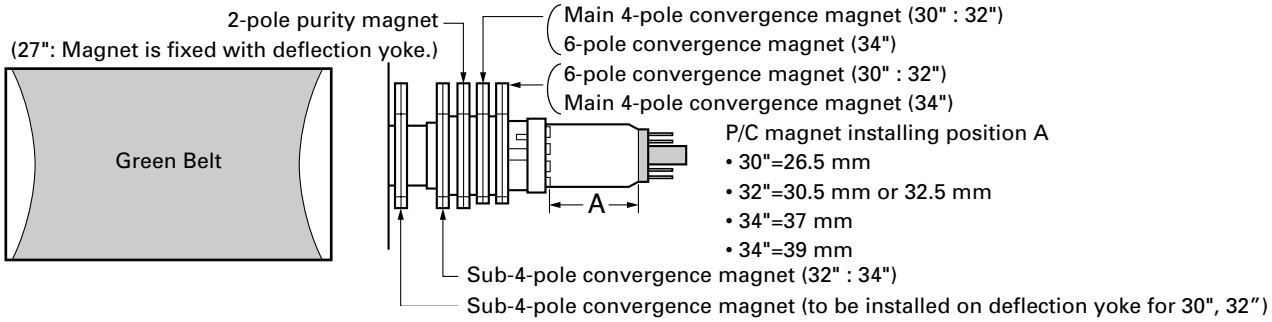
(1)Let the screen face in the installing direction or toward the east (when it is to be moved), bring up the service mode screen after demagnetizing (front, left, right, and top) with the degaussing coil, receive white signals by pressing the [TV/VIDEO] button, and then the receiver should be operated for more than 40 minutes.

(2)Perform rough adjustment of the central convergence with the P/C magnet according to the adjustment item.

(3)Receive built-in green signals, loosen set screws on the deflection yoke, remove rubber wedges, and shift the deflection yoke to toward front.

(4)Move alternately the two 2-pole magnets of the P/C magnets so that the green raster can come to the center of the screen.

**Figure 1.**

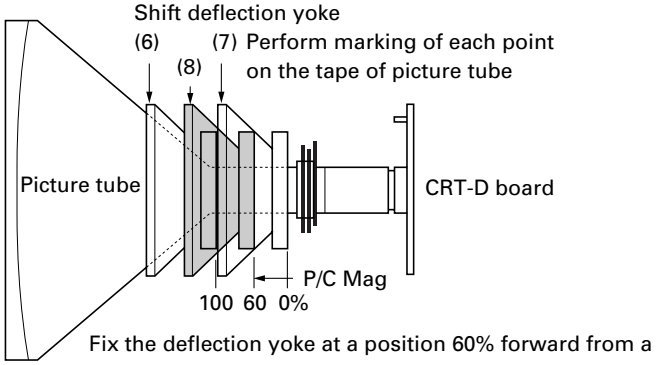

2-pole purity magnet
(27": Magnet is fixed with deflection yoke.)
Green Belt
Main 4-pole convergence magnet (30" : 32")
6-pole convergence magnet (34")
6-pole convergence magnet (30" : 32")
Main 4-pole convergence magnet (34")
A
P/C magnet installing position A
• 30"=26.5 mm
• 32"=30.5 mm or 32.5 mm
• 34"=37 mm
• 34"=39 mm
Sub-4-pole convergence magnet (32" : 34")
Sub-4-pole convergence magnet (to be installed on deflection yoke for 30", 32")

(5)Receive built-in red and blue signals, check that there is no inclination of the single color raster toward one side, and if each color tilts to a great extent, make adjustment with the 2-pole magnet so that the 3 colors will come to the center evenly.

(6)Receive the green raster, shift the deflection yoke from a foremost position (hitting against the picture tube) to a backward position horizontally, stop the deflection yoke at a position where it begins to become a green raster, and perform accurate marking on the picture tube.

(7)Shift the deflection yoke further backward, and perform accurate marking at a position where the green raster begins to being luck.

(8)Fix the deflection yoke at a position 60% forward within the range marked in items (6) and (7) above.


Shift deflection yoke
(6)
(8)
(7) Perform marking of each point on the tape of picture tube
Picture tube
CRT-D board
P/C Mag
100 60 0%
Fix the deflection yoke at a position 60% forward from a point between (6) and (7)

## CONVERGENCE ADJUSTMENTS

* Adjust the convergence magnet to get vest convergence in the the order to (1) ~ (5).

### ■ CENTER CONVERGENCE:

(1)Receive the white crosshatch or dot pattern from the service signal generator.

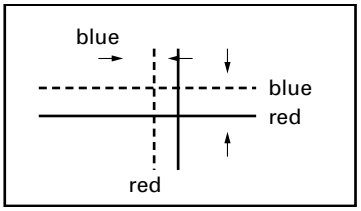
(2)Use the 2 pieces of main 4-pole magnets of P/C magnets, change the open angle, and align the red and blue vertical lines on the screen center.

(3)Freeze the open angle of the main 4-pole magnets, turn them simultaneously, and align the horizontal lines.

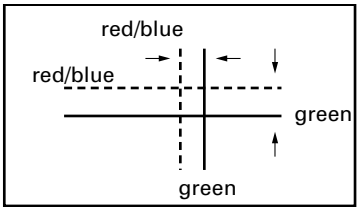
(4)Take the same steps for items (2) and (3) above and align red/blue with green on the screen center using two 6-pole magnets.

(5)Adjust the sub-4-pole magnets only in case there is any deviation of Xv bow-shaped convergence. (To be usually set at the initial position)

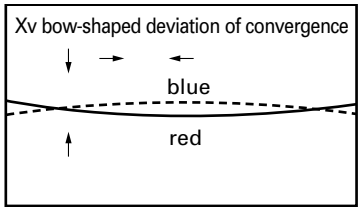
Align both sides with the sub-4-pole magnets and minimize the deviation of blue and red with the main 4-pole magnets.




**Main 4-pole magnet**



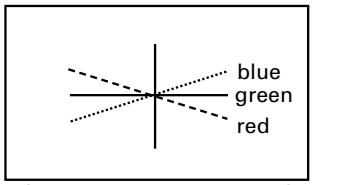

**6-pole magnet**

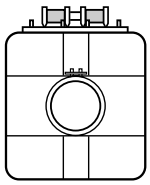



**Sub-4-pole magnet**

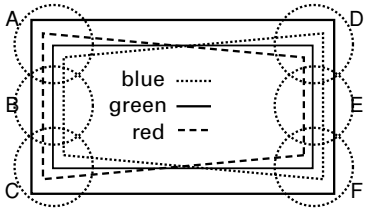
## ■ CIRCUMFERENCE CONVERGENCE:

* Perform correction in the following manner.

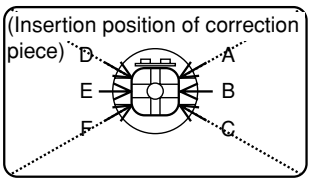


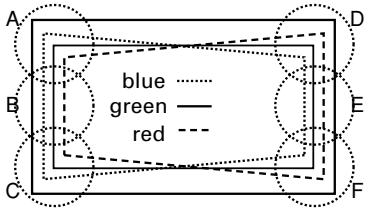
• Adjust coils and minimize deviation
(The 27" unit has coils underneath it)



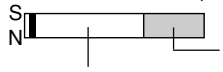

(Parts code:23 948 274) TC-S



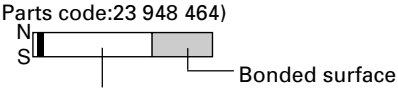

*Insert the correction piece between the picture tube and the deflection yoke.



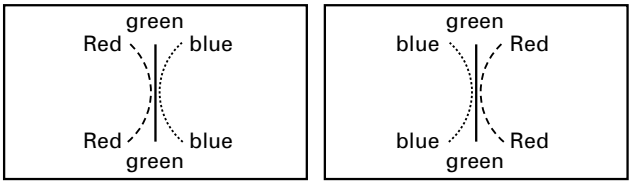

(Parts code:23 948 464)



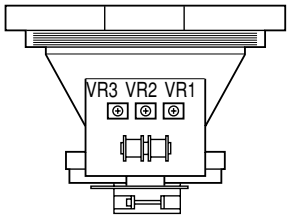

Blue color or blue mark



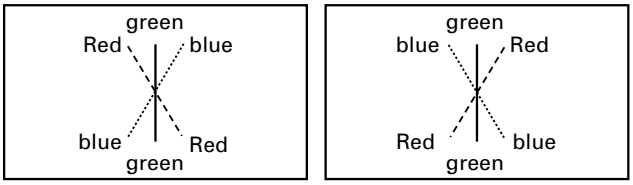

**Adjust VR 1 and minimize the deviation of YH. *Only 27", 30" and 32".**



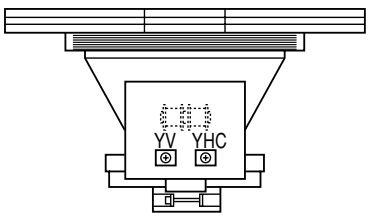

■ 30", 27", 32"



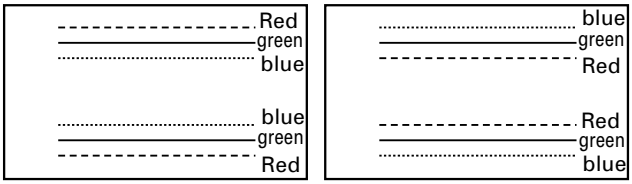

**Adjust VR 2 (YHC) and minimize the deviation of YH.**

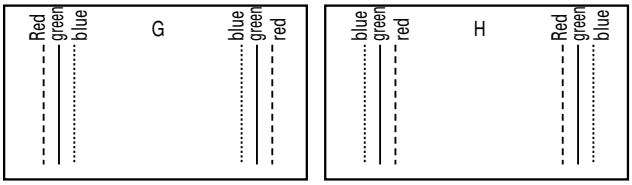



■ 34"

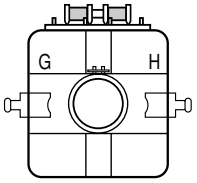



**Adjust VR 3 (YV) and minimize the deviation of YV.**




27" (Part No. 23 947 371)
32", 30" (Part No. 23 947 121)
34" (Part No. 23 993 080)




Perform correction by inserting the correction piece into the clearance of terminal board coils of the deflection yoke.

**Note:**

Perform insertion by turning the metal side to the terminal board side of the deflection yoke.

# SERVICE MODE

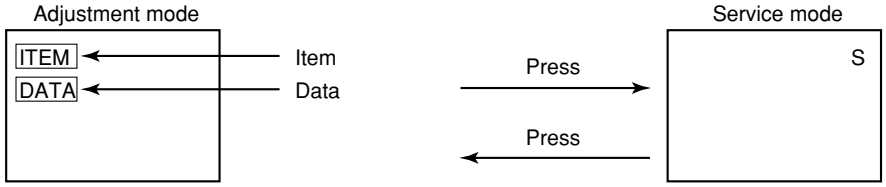
## 1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.
2) Press 🔇 button again to keep pressing.
3) While pressing the 🔇 button, press MENU button on TV set.

(Service mode display)

## 2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.




## 3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

| | |
|---|---|
| A single horizontal line ON/OFF: | INFO button (on Remote) or ⊖ button (on TV) |
| Test signal selection : | ⊖ button (on Remote) |
| Selection of the adjustment items : | Channel ▲/▼ (on TV or Remote) |
| Change of the data value : | Volume ◿ +/– (on TV or Remote) |
| Adjustment menu mode ON/OFF : | MENU button (on TV) |
| Initialization of the memory (QA02) : | CALL + Channel button on TV (▲) |
| Reset the count of operating protect circuit to “00”: | CALL + Channel button on TV (▼) |
| “RCUT” selection : | 1 button |
| “GCUT” selection : | 2 button |
| “BCUT” selection : | 3 button |
| “CNTX” (or “SCNT”) selection : | 4 button |
| “COLC” selection : | 5 button– – – – – Color thickness correction |
| “TNTC” selection : | 6 button note: Displayed differently as shown below, depending on the setting of the receiving color system. |
| Self diagnostic display ON/OFF : | 9 button COLP (PAL) COLC (NTSC) COLS (SECAM) |

CAUTION : Never try to perform initialization unless you have changed the memory IC.

**4. SELECTING THE ADJUSTING ITEMS**

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 16)

**5. ADJUSTING THE DATA**

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

**6. EXIT FROM SERVICE MODE**

1) Pressing POWER button to turn off the TV once.

**■ INITIALIZATION OF MEMORY DATA OF QA02**

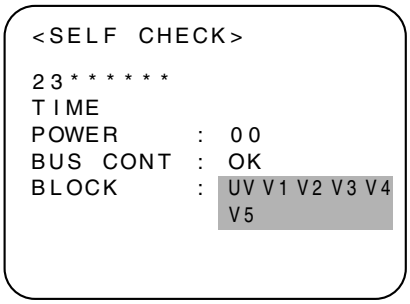
After replacing QA02, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Auto search Memory” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

**8. SELF DIAGNOSTIC FUNCTION**

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.




Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

① Part number of microcomputer (QA01)
② Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.
③ BUS CONT ----“OK” is normal.
When indication shows “Q ○○○ NG”, the device with the number may possibly be damaged.
④ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (→①)
V2 : VIDEO 2 input mode (→②)
V3 : VIDEO 3 input mode (→③)
V4 : VIDEO 4 input mode (→④)
V5 : VIDEO 5 input mode (→⑤)

***** The items marked with ■ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

# DESIGN MODE

**1. ENTERING TO DESIGN MODE**

1) Select the Service mode. 2) While pressing 🔇 or CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.

(Design mode) (Adjustment mode)

When QA02 is initialized, items “OPT0” and “OPT1” of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0” and “OPT1”.

**2. SELECTING THE ADJUSTING ITEMS**

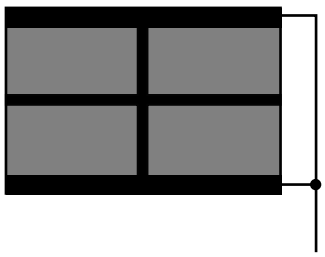
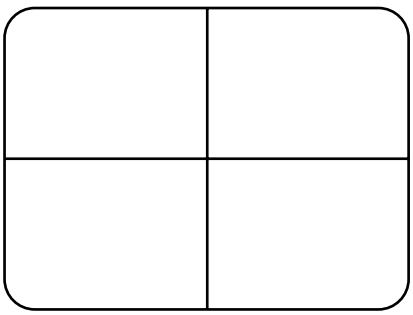
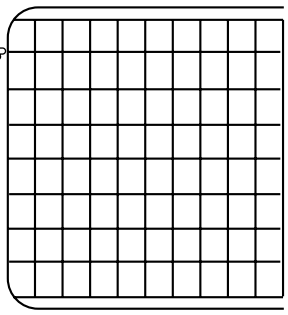
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3.
(▲ button for reverse order)

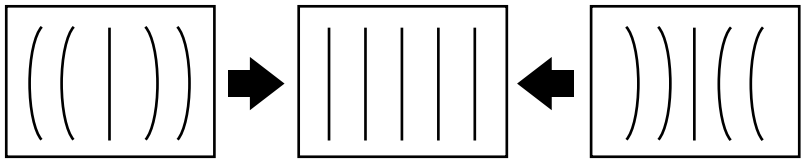
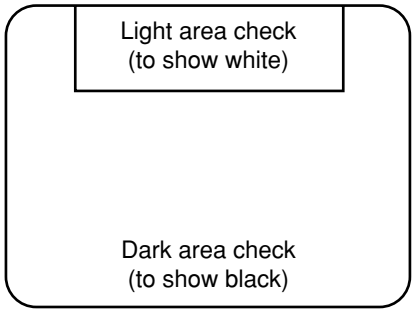
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 16)

**3. ADJUSTING THE DATA**

Pressing of VOLUME ▲ or ▼ button will change the value of data.

# ELECTRICAL ADJUSTMENTS

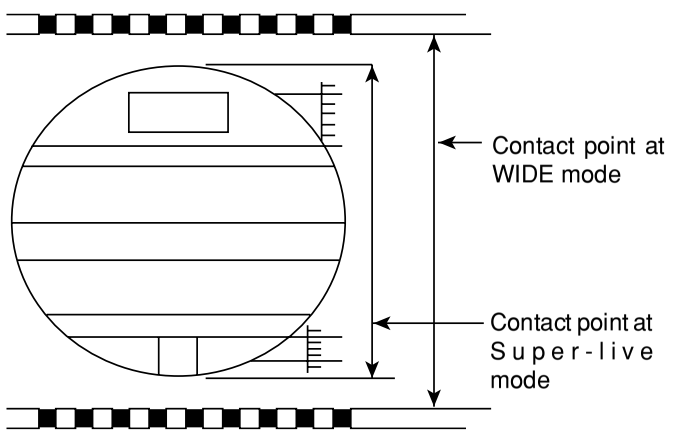
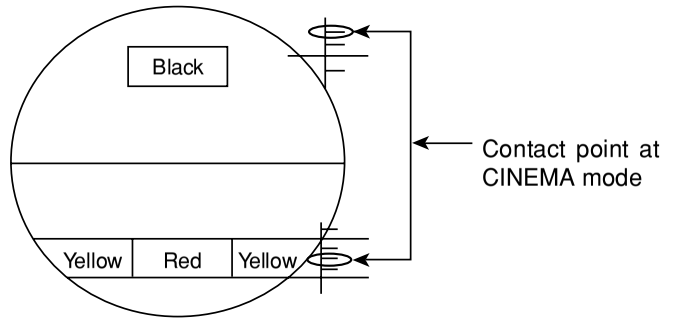
| ITEM | ADJUSTMENT PROCEDURE |
|---|---|
| FOCUS VR ADJ | 1. Enter the service mode, then select any register item.<br>2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen.<br>3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen. |
| SUB-BRIGHTNESS (BRTC)<br><br>Note: Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT). | 1. Set CONTRAST to minimum, and BRIGHTNESS to center by adjusting user controls.<br>2. Set the TV in service mode to get Black cross-bar of inside pattern.<br>3. Select BRTC (brightness correction), and adjust the ◿ – /+ button to reduce the value so that white portion of inside pattern slightly light.<br>4. Adjust ◿ – /+ button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible.<br>After that, return vertical height and contrast.<br>  <br>Belt of vertical retrace |
| HORIZONTAL POSITION ADJUSTMENT (HPOS)<br><br>VERTICAL POSITION ADJUSTMENT (VPOS) | 1. Set the TV in service mode, and get black cross-bar signal with VIDEO button on remote hand unit.<br>2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL ▲, ▼ buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME ◿ – /+ buttons.<br>  |
| VERTICAL AMPLITUDE ADJUSTMENT (HIT) | 1. Set the TV in service mode, and get black cross-hatch signal with VIDEO button on remote hand unit.<br>2. Select HIT (Vertical amplitude) with CHANNEL ▲, ▼ buttons, and adjust vertical amplitude with VOLUME ◿ – /+ buttons so that vertical amplitude lacks a little.<br>3. Adjust vertical amplitude with VOLUME ◿ – /+ buttons so that the first bar on cross-hatch signal touches edge of screen.<br>The first ☞<br>  |

| ITEM | ADJUSTMENT PROCEDURE |
|---|---|
| WIDTH<br>(WID) | 1. Call up the adjustment mode display, then select the item **WID**.<br>2. Press the ◿ – /+ button to get the picture so the left and rightedges of raster begins to lack.<br>3. Press the ◿ – /+ button to advance the data by 7 steps.<br>Note : Check the horizontal picture position is correct. |
| E-W PARABOLA<br>(PARA) | 1. Call up the adjustment mode display, then select the item **PARA**.<br>2. Press the ⊖ button on Remote until the cross-hatch pattern appears on the screen.<br>3. Press the ◿ – /+ button to make vertical lines straight as shown below.<br>  |
| WHITE BALANCE<br>ADJUSTMENT<br><br>● CUTOFF ADJUSTMENT<br>(RCUT)<br>(GCUT)<br>(BCUT)<br><br>● DRIVE ADJUSTMENT<br>(GDRV)<br>(BDRV) | 1. Set Contrast to 40, and brightness to +20 by picture control.<br>2. Receive the Black and White pattern.<br>3. Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to Initial reference data, and to set GDRV and BDRV to Initial reference data with VOLUME ◿ – /+ buttons (See page 18).<br>4. Press -/- - button on the remote control and rotate Screen VR to get one slight horizontal line on screen.<br>Note: Every pressing of -/- - button provides Horizontal line picture and Normal picture alternately.<br>5. Press -/- - button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ◿ – /+ buttons so that three colors slightly light in the same level.<br><br>※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust.<br>※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT.<br>  |

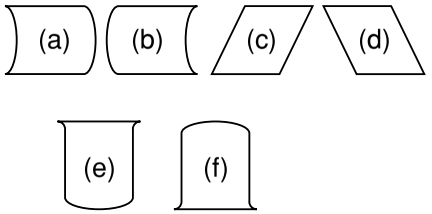
(Reference Factory Adjustments)

| Items | Names | Settings (User control) | Input signals | Measuring points | Adjusting methods | Adjusting standards |
|---|---|---|---|---|---|---|
| [SCNT] | Sub-contrast | PICTURE MODE-1<br>Screen size: WIDE<br>Audio system: I | Sub-bright signal (PAL-I Signal) | TP46B | ① Adjust the amplitude from the pedestal level to the white peak. | 2.4 ± 0.1 Vp-p |
| [BRTC] | Sub-bright Center | PICTURE MODE-1<br>Screen size: WIDE | Sub-bright Signal | Screen adjust-ment | ① Adjust the number of collapsed black lines of the sub-bright signal.<br>② Adjust this after adjusting W/B, [SCNT]. | 4±1.5 pieces<br>Screen adjustment |
| [COLP] | Sub-color center PAL | PICTURE MODE-1<br>Screen size: WIDE | Sub-bright Signal (PAL) | TP46B | ① Adjust the amplitude of B-Y.<br>(Apply Y mute at the time of adjustment) | 1.2 ± 0.1 Vo-p |
| SCREEN VR<br>[RCUT]<br>[GCUT]<br>[BCUT]<br>[GDRV]<br>[BDRV] | R Cutoff<br>G Cutoff<br>B Cutoff<br>G Drive<br>B Drive | PICTURE MODE-1<br>Screen size: WIDE<br>[RCUT]: 40H<br>[GCUT]: 40H<br>[BCUT]: 40H<br>[GDRV]: 35H<br>[BDRV]: 35H | | Screen adjustment | ① Enter Horizontal Straight-line Mode.<br>② Gradually increase the screen VR until R, G, or B line starts to light up slightly.<br>③ Determine this location as the adjusting position of the screen VR.<br>④ Gradually raise the respective lines other than the line that glimmered in ② above and stop at the location where each of them glimmers.<br>(Adjust so that it will become almost white)<br>⑤ Escape from horizontal straight-line mode.<br>⑥ Use the CA100 and adjust repeatedly so that both the dark and bright areas will come to correct values. | Bright part<br>(103cd/m²)<br>8750K-0.002uv<br>Dark part<br>(17cd/m²)<br>8750K-0.002uv<br><br>Screen judgment<br>(CA100) |
| [SBY] | SECAM B-Y Black level | | SECAM Color bar | TP01 | ① Vary [SBY] so that the level of black and white signal areas will be aligned with that of BLK. | 0 ± 10 mV |
| [SRY] | SECAM R-Y Black level | | SECAM Color bar | TP02 | ① Vary [SRY] so that the level of black and white signal areas will be aligned with that of H. BLK. | 0 ± 10 mV |
| [COLS] | Sub-color Center SECAM | PICTURE MODE-1<br>Screen size: WIDE | SECAM Color bar | TP46B | ① Adjust the amplitude of B-Y.<br>(Apply Y mute at the time of adjustment) | 1.6 ± 0.1 Vo-p<br>(Pedestal to Peak) |

1. Data adjustment

| | Adjusting items | Adjusting methods | |
|---|---|---|---|
| Vertical | WIDE mode<br>Vertical amplitude [HIT]<br><br>Vertical position [VPS1] | PAL WG Philips Pattern, User Adjustment Standard<br>Adjust the vertical amplitude by [HIT] so that the top-and-bottom flags will be hidden.<br><br>PAL Philips Pattern, User Adjustment Standard<br>Adjust the vertical position [VPS1] so that the vertical screen position will come to the center in Philips Pattern. (See the figure on the right) |  |
| | Super-live mode<br>Vertical amplitude [HIT] | PAL Philips Pattern, User Adjustment Standard<br>Adjust the vertical amplitude position by [HIT] so that the top and bottom of the circle will contact the CPT mask in Philips Pattern. (See the figure on the right) | |
| | CINEMA mode<br>Vertical amplitude [HIT] | Philips Pattern, User Adjustment Standard<br>Adjust the vertical amplitude by [HIT] so that point shown in the lower right will contact the CRT mask. (See the figure on the right) |  |

3. Data Adjustment

| | Adjustment items | Adjustment methods |
|---|---|---|
| Horizontal | WIDE mode<br><br>Horizontal phase: [HPOS]<br>Horizontal amplitude: [WID]<br>Side DPC: [PARA]<br>Trapezoidal distortion: [TRAP]<br>Corner distortion: [CNR]<br>Center distortion: [CPAR]<br>Parallelogram distortion: [CSAW]<br>DPCS letter distortion: [HSC] | Use PAL WG Philips Pattern and adjust the horizontal amplitude so that the mask will be adjusted to the frame of the left and right flag sections at WIDE mode. Use [WID].<br><br>Use PAL WG Philips Pattern and adjust by [PARA] and [TRAP] so that the side pin distortion and trapezoidal distortion will be optimized at WIDE mode.<br>As for the horizontal screen position, use horizontal phase [HPOS] and adjust so that the position will come to the center.<br>• **Note:** If the distortion adjustment by [PARA] and [TRAP] was insufficient, use the DATA of [CNR], [CPAR], [CSAW], and [HSC] for adjustment.<br>① When the distortion occurs as shown in Fig. (a), decrease [CPAR]. On the contrary, increase [CPAR] for the distortion of Fig. (b).<br>② When the distortion occurs as shown in Fig. (c), decrease [CSAW]. On the contrary, increase [CSAW] for the distortion of Fig. (d).<br>③ When the distortion occurs as shown in Fig. (e), decrease [HSC]. On the contrary, increase [HSC] for the distortion of Fig. (f).<br>  |
| | Super-live mode<br>Horizontal amplitude: [WID]<br>Side DPC: [PARA]<br>Trapezoidal distortion: [TRAP]<br>Horizontal phase [HPOS]<br>DPCS letter distortion: [HSC]<br>Corner distortion: [CNR] | Use PAL Philips Pattern and adjust the frame of the left and right flag sections to the mask at Super-live mode.<br><br>Adjust so that the side pin distortion and trapezoidal distortion will be optimized.<br>If further adjustment is required, use horizontal phase [HPOS], corner distortion [CNR], and DPCS letter distortion [HSC]<br>f |
| | CINEMA mode<br>Horizontal amplitude: [WID]<br>Side DPC: [PARA]<br>Trapezoidal distortion: [TRAP]<br>Horizontal phase: [HPOS]<br>DPCS letter distortion: [HSC]<br>Corner distortion: [CNR] | |

# CIRCUIT CHECK

**HIGH VOLTAGE CHECK**

**CAUTION:** There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

Refer to table-1 for high voltage (B).
(See SETTING & ADJUSTING DATA on page 16)

4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

# CHAPTER 2 SPECIFIC INFORMATIONS

## SETTING & ADJUSTING DATA

**【 SAFETY INSTRUCTIONS 】**

| | | 32” | 36" |
|---|---|---|---|
| HIGH VOLTAGE AT ZERO BEAM: | (A) | 32.2 kV | 32.4 kV |
| MAX HIGH VOLTAGE: | (B) | 35.0 kV | 35.0 kV |
| AV VOLTAGE | (C) | 220~240 V | 220~240 V |

**Table-1**

**【 SERVICE MODE 】**



**ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:**

| Item | Adjustment | Reference data |
|---|---|---|
| RCUT | R CUTOFF | 40H |
| GCUT | G CUTOFF | 40H |
| BCUT | B CUTOFF | 40H |
| GDRV | R DRIVE | 35H |
| BDRV | B DRIVE | 35H |
| BRTC | SUB BRIGHT CEN | 80H |
| COLP | SUB COLOR CEN PAL | 19H |
| COLS | SUB COLOR CEN SECAM | 19H |
| SCC | YOOUT LEVLE FOR FOR ATV | 66H |
| SRY | SECAM R-Y | 07H |
| SBY | SECAM B-Y | 04H |

| Item | Adjustment | WIDE | | | SuperLive | | | CINEMA | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Ref. Data | 32" | 36" | Ref. Data | 32" | 36" | Ref. Data | 32" | 36" |
| HPOS | H-POSITION | 32H | 35H | 3BH | 32H | 36H | 3AH | 32H | 35H | 3BH |
| HIT | PICTURE HEIGHT | 2BH | ← | 29H | 33H | 32H | 2FH | 4AH | ← | 46H |
| VLIN | V-LINEARITY | 11H | ← | 0FH | 0EH | ← | ← | 0FH | ← | ← |
| VPS2 | V-SHIFT | 40H | ← | ← | ← | ← | ← | ← | ← | ← |
| WID | WIDTH | 2AH | 1CH | 22H | 39H | 2BH | 2DH | 2BH | 1CH | 26H |
| PARA | E-W PARABOLA | 11H | 12H | 1AH | 16H | 18H | 1EH | 21H | 22H | 2BH |
| CNR | E-W CORNER | 13H | 11H | 13H | 18H | 15H | 13H | 1AH | 15H | 13H |
| TRAP | TRAPEZIUM | 45H | 4CH | 40H | 46H | 4DH | 43H | 45H | 4CH | 41H |
| CPAR | CENT PARA | 07H | 09H | 07H | ← | 09H | 07H | 06H | 08H | 06H |
| HSC | EW S CORRECTION | 11H | 10H | ← | ← | ← | ← | 11H | 10H | ← |
| VPS1 | V-POSITION | 70H | 7FH | ← | 6FH | 7EH | ← | 72H | 7FH | ← |
| CSAW | CENT SAW | 08H | ← | ← | ← | ← | ← | ← | ← | ← |

**Table-2**

**【 DESIGN MODE 】**

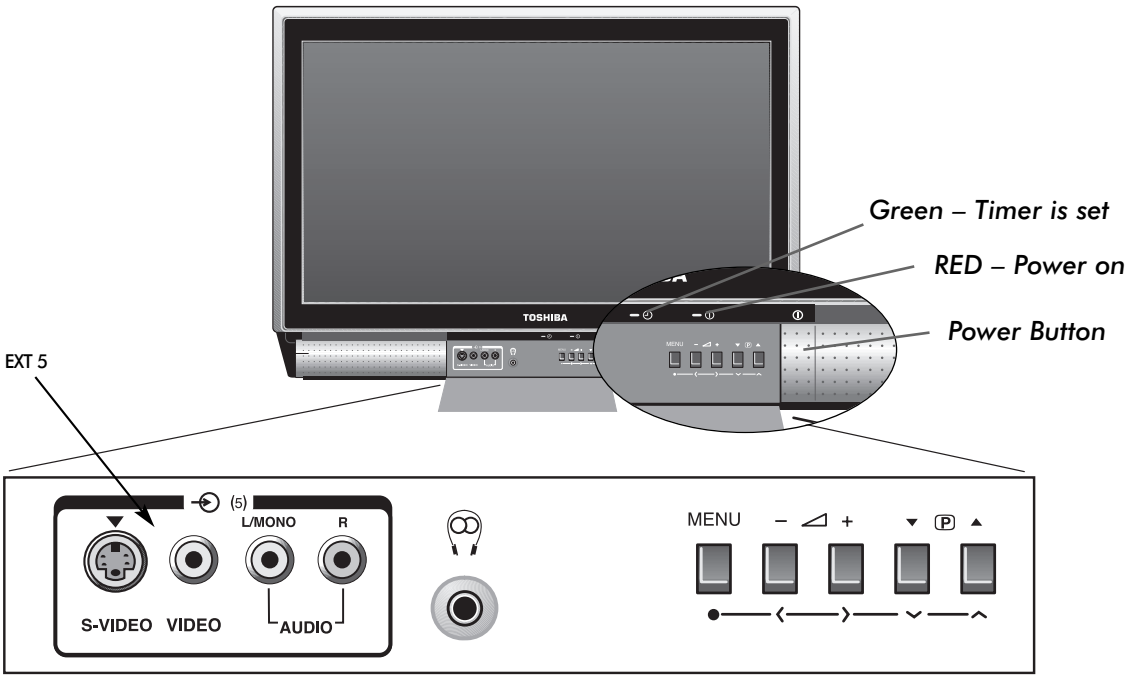
**ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:**

| Item | Name of adjustment | Preset Data | Remarks |
|---|---|---|---|
| OPT0 | OPTION 0 | 90H | |
| OPT1 | OPTION 1 | 76H | |
| OPT2 | OPTION 2 | 00H | |
| OPT3 | OPTION 3 | 01H | |

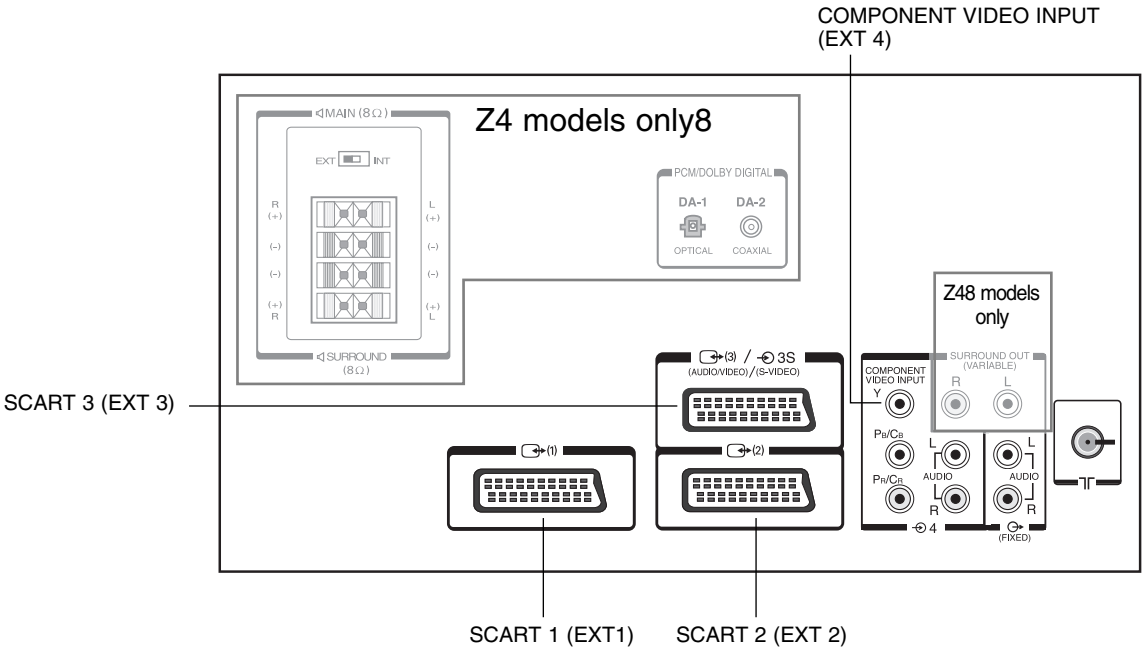
**Table-3**

# LOCATION OF CONTROLS

## Front




## Back



**Remote Control**

*To bring up on-screen information and for the teletext initial/index function*

*To display teletext*

*For On/Standby mode*

*Number buttons*

*To select input from external sources*
*To access sub-pages when in teletext mode*

*To return to the previous programme*

*Selectable picture preferences*

*Widescreen viewing*

*On-screen Menus*

*To exit Menus*

*To change programme positions and teletext pages*
*To alter the volume*
*When using menus the arrows move the cursor on the screen up, down, left or right.* **OK** *to confirm your selection*

*Teletext control buttons*

*Dolby Surround (Z48 models only)*

*Super Woofer*

*To select mode*

*To mute the sound*

**When using a TOSHIBA VCR or DVD:**
press ⏸ to PAUSE
press ⏏ to EJECT
press ⏮ to SKIP-REWIND
press ⏭ to SKIP-FORWARD
press ▶ to PLAY
press ■ to STOP
press ◀◀ to REWIND
press ▶▶ to FAST FORWARD

**When in TV mode:**
▼ *Still picture*
I/II *Stereo/bilingual reception*
⏲/EX *Time display*

**When in Teletext mode:**
*To reveal concealed text*
*To hold a wanted page*
*To enlarge teletext display size*
⏲/EX *To select a page whilst viewing a normal picture*

# CHASSIS AND CABINET REPLACEMENT PARTS LIST

**WARNING**: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

**CAUTION**: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

***NOTICE:***

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ∗ mark is no longer available after the end of the production.*

**Model : 32ZP48P/36ZP48P**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Capacitors ..... | CD | : Ceramic Disk | PF | : Plastic Film | EL | : Electrolytic |
| Resistors ..... | CF | : Carbon Film | CC | : Carbon Composition | MF | : Metal Film |
| | OMF | : Oxide Metal Film | VR | : Variable Resistor | FR | : Fusible Resistor |

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

| Location No. | | Parts No. | Description |
|---|---|---|---|
| **#1 : [32ZP48P]** | | | |
| **#2 : [36ZP48P]** | | | |
| **CAPACITORS** | | | |
| C102 | | 24762221 | ELECTROLYTIC, 10V 220UF M |
| C105 | | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| C106 | | 24797100 | ELECTROLYTIC, 50V 10UF M |
| C108 | | 24762221 | ELECTROLYTIC, 10V 220UF M |
| C109 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C115 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C160 | | 24503045 | PLASTIC FILM, 63V 0.22UF J |
| C205 | | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| C206 | | 24794100 | ELECTROLYTIC, 16V 10UF M |
| C302 | | 24214471 | CERAMIC DISC, 500V B 470PF K |
| C303 | | 24214471 | CERAMIC DISC, 500V B 470PF K |
| C305 | | 24795222 | ELECTROLYTIC, 25V 2200UF M |
| C308 | | 24766221 | ELECTROLYTIC, 50V 220UF M |
| C309 | | 24590102 | PLASTIC FILM, 50V 1000PF J |
| C310 | | 24795222 | ELECTROLYTIC, 25V 2200UF M |
| C313 | | 24082280 | PLASTIC FILM, 100V 0.22UF J |
| C316 | | 24795471 | ELECTROLYTIC, 25V 470UF M |
| C317 | | 24214821 | CERAMIC DISC, 500V B 820PF K |
| C318 | | 24794471 | ELECTROLYTIC, 16V 470UF M |
| C320 | | 24795471 | ELECTROLYTIC, 25V 470UF M |
| C321 | | 24503051 | PLASTIC FILM, 63V 0.68UF J |
| C322 | | 24617915 | ELECTROLYTIC, 50V 1UF K 3A LI |
| C323 | | 24503049 | PLASTIC FILM, 63V 0.47UF J |
| C325 | | 24590183 | PLASTIC FILM, 50V 0.018UF J |
| C326 | | 24797010 | ELECTROLYTIC, 50V 1UF M |
| C327 | | 24794471 | ELECTROLYTIC, 16V 470UF M |
| C331 | | 24503038 | PLASTIC FILM, 63V 0.056UF J |
| C332 | | 24212102 | CERAMIC DISC, 50V B 1000PF K |
| C361 | #1 | 24591222 | PLASTIC FILM, 50V 2200PF J |
| | #2 | 24503045 | PLASTIC FILM, 63V 0.22UF J |
| C366 | | 24082275 | PLASTIC FILM CQ922 M 100V 82000PF J |
| C370 | | 24794100 | ELECTROLYTIC, 16V 10UF M |
| C372 | | 24797470 | ELECTROLYTIC 04G, 50V 47UF M |
| C373 | | 24797470 | ELECTROLYTIC 04G, 50V 47UF M |
| C410 | | 24092341 | CERAMIC DISC, 2KV R 470PF K |
| C413 | | 24214392 | CERAMIC DISC, 500V B 3900PF K |
| C416 | | 24676330 | ELECTROLYTIC, 100V 33UF M 3A |
| C417 | | 24214391 | CERAMIC DISC, 500V B 390PF K |
| C419 | | 24212102 | CERAMIC DISC, 50V B 1000PF K |
| C420 | | 24794101 | ELECTROLYTIC, 16V 100UF M |
| C421 | | 24232103 | CERAMIC DISC, 50V F 0.01UF Z @U902 |
| | | 24503041 | PLASTIC FILM , 63V 0.1UF J @U903A |

| Location No. | | Parts No. | Description |
|---|---|---|---|
| C423 | | 24829563 | PLASTIC FILM, 400V 0.056UF J |
| C430 | | 24820103 | PLASTIC FILM, 630V 0.01UF J |
| C431 | | 24232103 | CERAMIC DISC, 50V F 0.01UF Z |
| C432 | | 24590103 | PLASTIC FILM, 50V 0.01UF J |
| C441 | | 24503291 | PLASTIC FILM CF92 T 400V R62UF J |
| C442 | | 24082637 | PLASTIC FILM, 400V 0.1UF J |
| C443 | | 24503190 | PLASTIC FILM, 400V 0.12UF J |
| C444 | | 24503196 | PLASTIC FILM CF92 T 1800VH 5600PF H |
| C445 | | 24829473 | PLASTIC FILM, 400V 0.047UF J |
| C446 | | 24679330 | ELECTROLYTIC, 250V 33UF M 3A |
| C447 | #1 | 24820243 | PLASTIC FILM CQ92 T 630V 24000PF |
| | #2 | 24820273 | PLASTIC FILM, 630V 27000PF J |
| C448 | | 24073118 | ELECTROLYTIC, 160V 33UF M |
| C449 | | 24829333 | PLASTIC FILM, 400V 0.033UF J |
| C451 | | 24503047 | PLASTIC FILM, 63V 0.33UF J |
| C460 | | 24679220 | ELECTROLYTIC, 250V 22UF M 3A |
| C461 | | 24503195 | PLASTIC FILM, 1800VH 5100PF H |
| C462 | | 24666101 | ELECTROLYTIC 04Q, 16V 100UF M 3A |
| C464 | | 24503149 | PLASTIC FILM, 250V 3.3UF |
| C465 | | 24590183 | PLASTIC FILM, 50V 0.018UF J |
| C466 | | 24503261 | PLASTIC FILM CF92 T 1250VH 6800PF H |
| C467 | | 24503253 | PLASTIC FILM, 1250VH 0.01UF H |
| C468 | | 24503253 | PLASTIC FILM, 1250VH 0.01UF H |
| C470 | | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C471 | | 24503046 | PLASTIC FILM, 63V 0.27UF J |
| C472 | | 24503049 | PLASTIC FILM, 63V 0.47UF J |
| C473 | | 24669010 | ELECTROLYTIC, 50V 1UF M 3A |
| C475 | | 24820822 | PLASTIC FILM, 630V 8200PF J |
| C476 | | 24794220 | ELECTROLYTIC, 16V 22UF M |
| C478 | | 24503038 | PLASTIC FILM, 63V 0.056UF J |
| C481 | | 24590103 | PLASTIC FILM, 50V 0.01UF J |
| C482 | | 24085988 | ELECTROLYTIC, NONPOLAR, 50V 1.0UF M 7L @U902 |
| | | 24212152 | CERAMIC DISC, 50V B 1500PF K @U904 |
| C489 | | 24590393 | PLASTIC FILM, 50V 0.039UF J |
| C495 | | 24092343 | CERAMIC DISC, 2KV 680PF K |
| C496 | | 24092343 | CERAMIC DISC, 2KV 680PF K |
| C498 | | 24590821 | PLASTIC FILM CQ922M 50V 820PF J |
| C501 | | 24092730 | CERAMIC CHIP, 16V B 0.1UF K |
| C502 | | 24092730 | CERAMIC CHIP, 16V B 0.1UF K |
| C503 | | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C504 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C505 | | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C506 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C507 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C508 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C509 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |

| Location No. | Parts No. | Description |
|---|---|---|
| C511 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C512 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C513 | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C514 | 24763221 | ELECTROLYTIC, 16V 220UF M |
| C516 | 24105110 | CERAMIC CHIP, 50V CH 11PF J |
| C517 | 24206478 | ELECTROLYTIC, 50V 0.47UF M 7L 3A |
| C519 | 24797479 | ELECTROLYTIC, 50V 4.7UF M |
| C520 | 24503047 | PLASTIC FILM, 63V 0.33UF J |
| C521 | 24092733 | CERAMIC CHIP, 50V B 0.022UF K |
| C522 | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C523 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C524 | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C525 | 24503041 | PLASTIC FILM , 63V 0.1UF J |
| C526 | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C527 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| C530 | 24206010 | ELECTROLYTIC, 50V 1.0UF M 7L 3A |
| C531 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C532 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C533 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C534 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C536 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C537 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C540 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C541 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C542 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C543 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C544 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C545 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C547 | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C548 | 24763101 | ELECTROLYTIC, 16V 100UF M |
| C563 | 24206010 | ELECTROLYTIC, 50V 1.0UF M 7L 3A |
| C564 | 24797479 | ELECTROLYTIC, 50V 4.7UF M |
| C565 | 24797478 | ELECTROLYTIC, 50V 0.47UF M |
| C575 | 24092730 | CERAMIC CHIP, 16V B 0.1UF K |
| C580 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C613 | 24666471 | ELECTROLYTIC 04Q, 16V 470UF M 3A |
| C615 | 24085945 | ELECTROLYTIC, NONPOLAR 04J, 50V 2.2UF |
| C616 | 24590183 | PLASTIC FILM, 50V 0.018UF J |
| C617 | 24590152 | PLASTIC FILM, 50V 1500PF J |
| C618 | 24590563 | PLASTIC FILM, 50V 0.056UF J |
| C619 | 24794221 | ELECTROIYTIC 04G, 16V 220UF M |
| C620 | 24794101 | ELECTROLYTIC, 16V 100UF M |
| C621 | 24590102 | PLASTIC FILM, 50V 1000PF J |
| C626 | 24797478 | ELECTROLYTIC, 50V 0.47UF M |
| C628 | 24797470 | ELECTROLYTIC 04G, 50V 47UF M |
| C629 | 24109221 | CERAMIC CHIP, 50V B 220PF K |
| C630 | 24109221 | CERAMIC CHIP, 50V B 220PF K |
| C631 | 24669010 | ELECTROLYTIC, 50V 1UF M 3A |
| C632 | 24669479 | ELECTROLYTIC, 50V 4.7UF M 3A |
| C633 | 24503042 | PLASTIC FILM, 63V 0.12UF J |
| C634 | 24668471 | ELECTROLYTIC, 35V 470UF M 3A |
| C639 | 24793222 | ELECTROLYTIC, 10V 2200UF M |
| C641 | 24669010 | ELECTROLYTIC, 50V 1UF M 3A |
| C644 | 24669010 | ELECTROLYTIC, 50V 1UF M 3A |
| C645 | 24667470 | ELECTROLYTIC CE04Q, 25V 47UF M 3A |
| C647 | 24591102 | PLASTIC FILM, 50V 1000PF J |
| C648 | 24591102 | PLASTIC FILM, 50V 1000PF J |
| C649 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| C650 | 24668102 | ELECTROLYTIC, 35V 1000UF M 3A |
| C651 | 24668471 | ELECTROLYTIC, 35V 470UF M 3A |
| C652 | 24668471 | ELECTROLYTIC, 35V 470UF M 3A |
| C654 | 24503042 | PLASTIC FILM, 63V 0.12UF J |
| C655 | 24503042 | PLASTIC FILM, 63V 0.12UF J |
| C656 | 24232103 | CERAMIC DISC, 50V F 0.01UF Z |
| C657 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| C660 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| C661 | 24797478 | ELECTROLYTIC, 50V 0.47UF M |
| C662 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| C663 | 24669229 | ELECTROLYTIC, 50V 2.2UF M 3A |
| C664 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| C665 | 24073083 | ELECTROLYTIC CE04P 50V 3.3UF M 3A |
| C666 | 24073083 | ELECTROLYTIC CE04P 50V 3.3UF M 3A |
| C667 | 24669229 | ELECTROLYTIC, 50V 2.2UF M 3A |
| C668 | 24590102 | PLASTIC FILM, 50V 1000PF J |
| C669 | 24797330 | ELECTROLYTIC, 50V 33UF M |
| C670 | 24590222 | PLASTIC FILM, 50V 2200PF J @U902 |

| Location No. | Parts No. | Description |
|---|---|---|
| | 24797330 | ELECTROLYTIC, 50V 33UF M @U903C |
| C671 | 24669010 | ELECTROLYTIC, 50V 1UF M 3A |
| C672 | 24590222 | PLASTIC FILM, 50V 2200PF J |
| C673 | 24669010 | ELECTROLYTIC, 50V 1UF M 3A |
| C674 | 24669010 | ELECTROLYTIC, 50V 1UF M 3A |
| C675 | 24667470 | ELECTROLYTIC CE04Q, 25V 47UF M 3A |
| C676 | 24669479 | ELECTROLYTIC, 50V 4.7UF M 3A |
| C677 | 24590471 | PLASTIC FILM, 50V 470PF J |
| C678 | 24590471 | PLASTIC FILM, 50V 470PF J |
| C679 | 24591473 | PLASTIC FILM, 50V 0.047UF J |
| C680 | 24668102 | ELECTROLYTIC, 35V 1000UF M 3A |
| C681 | 24668102 | ELECTROLYTIC, 35V 1000UF M 3A |
| C682 | 24668102 | ELECTROLYTIC, 35V 1000UF M 3A |
| C683 | 24668102 | ELECTROLYTIC, 35V 1000UF M 3A |
| C684 | 24666470 | ELECTORLYTIC, 16V 47UF M 3A |
| C685 | 24503042 | PLASTIC FILM, 63V 0.12UF J |
| C686 | 24503042 | PLASTIC FILM, 63V 0.12UF J |
| C687 | 24232103 | CERAMIC DISC, 50V F 0.01UF Z |
| C688 | 24666220 | ELECTROLYTIC, 16V 22UF M 3A |
| C689 | 24503042 | PLASTIC FILM, 63V 0.12UF J |
| C691 | 24797010 | ELECTROLYTIC, 50V 1UF M |
| C692 | 24797010 | ELECTROLYTIC, 50V 1UF M |
| C695 | 24668101 | ELECTROLYTIC, 35V 100UF M 3A |
| C696 | 24667470 | ELECTROLYTIC CE04Q, 25V 47UF M 3A |
| C704 | 24590822 | PLASTIC FILM, 50V 8200PF J |
| C705 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| C707 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C712 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C713 | 24790100 | ELECTROLYTIC, 160V 10UF M |
| C715 | 24214472 | CERAMIC DISC, 500V B 4700PF K |
| C717 | 24214472 | CERAMIC DISC, 500V B 4700PF K |
| C718 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C719 | 24435151 | CERAMIC DISC, 500V SL 150PF |
| C720 | 24790100 | ELECTROLYTIC, 160V 10UF M |
| C721 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| ⚠ C801 | 24503506 | PLASTIC FILM, AC275V 0.1UF K |
| ⚠ C802 | 24503506 | PLASTIC FILM, AC275V 0.1UF K |
| C803 | #1 24503507 | PLASTIC FILM, AC275V 0.22UF K |
| C805 | 24092281 | CERAMIC DISC, AC250V E 4700PF |
| C806 | 24092281 | CERAMIC DISC, AC250V E 4700PF |
| C808 | 24668101 | ELECTROLYTIC, 35V 100UF M 3A |
| C809 | 24503049 | PLASTIC FILM, 63V 0.47UF J |
| C810 | 24086873 | ELECTROLYTIC, 400V 330UF |
| ⚠ C813 | 24092555 | CERAMIC DISC, AC250V E 1000PF M |
| ⚠ C814 | 24092555 | CERAMIC DISC, AC250V E 1000PF M |
| C816 | 24669479 | ELECTROLYTIC, 50V 4.7UF M 3A |
| C817 | 24092339 | CERAMIC DISC, 2KV 330PF K |
| C818 | 24095931 | PLASTIC FILM, 1250VH 2200PF J |
| C821 | 24214471 | CERAMIC DISC, 500V B 470PF K |
| C822 | 24503049 | PLASTIC FILM, 63V 0.47UF J |
| C823 | 24214471 | CERAMIC DISC, 500V B 470PF K |
| C829 | 24591272 | PLASTIC FILM, 50V 2700PF J |
| C831 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C832 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C834 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C835 | 24795100 | ELECTROLYTIC, 25V 10UF M |
| C836 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C838 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| C840 | 24667102 | ELECTROLYTIC, 25V 1000UF M 3A |
| C842 | 24669100 | ELECTROLYTIC, 50V 10UF M 3A |
| C872 | 24669221 | ELECTROLYTIC, 50V 220UF M 3A |
| C884 | 24086953 | ELECTROLYTIC, 160V 220UF M 3A |
| C885 | 24214471 | CERAMIC DISC, 500V B 470PF K |
| C889 | 24669222 | ELECTROLYTIC, 50V 2200UF M 3A |
| C891 | 24667472 | ELECTROLYTIC, 25V 4700UF M 3A |
| C892 | 24667472 | ELECTROLYTIC, 25V 4700UF M 3A |
| C893 | 24092337 | CERAMIC DISC, 2KV 220PF K |
| C896 | 24214471 | CERAMIC DISC, 500V B 470PF K |
| C898 | 24212102 | CERAMIC DISC, 50V B 1000PF K |
| C899 | 24214471 | CERAMIC DISC, 500V B 470PF K |
| C902 | 24092353 | CERAMIC DISC, 2KV 4700PF K |
| C904 | 24436471 | CERAMIC DISC, 50V SL 470PF J |
| C905 | 24436471 | CERAMIC DISC, 50V SL 470PF J |
| C907 | 24436391 | CERAMIC DISC, 50V SL 390PF J |
| C909 | 24679330 | ELECTROLYTIC, 250V 33UF M 3A |
| C910 | 24797478 | ELECTROLYTIC, 50V 0.47UF M |

| Location No. | | Parts No. | Description |
|---|---|---|---|
| C911 | | 24203100 | ELECTORLYTIC, 16V 10UF M 7L 3A |
| C912 | #1 | 24763102 | ELECTROLYTIC, 16V 1000UF M |
| | #2 | 24763222 | ELECTROLYTIC, 04G 16V 2200UF M |
| C913 | | 24794101 | ELECTROLYTIC, 16V 100UF M |
| C914 | | 24212103 | CERAMIC DISC, 50V B 10000PF K |
| C915 | | 24092398 | CERAMIC DISC, 25V 0.1UF Z |
| C930 | | 24214101 | CERAMIC DISC, 500V B 100PF K |
| C931 | | 24214101 | CERAMIC DISC, 500V B 100PF K |
| C2102 | | 24105560 | CERAMIC CHIP, 50V CH 56PF J |
| C2103 | | 24105560 | CERAMIC CHIP, 50V CH 56PF J |
| C2104 | | 24105560 | CERAMIC CHIP, 50V CH 56PF J |
| C2110 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C4000 | | 24590102 | PLASTIC FILM, 50V 1000PF J |
| C4222 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| C4401 | | 24763221 | ELECTROLYTIC, 16V 220UF M |
| C4402 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C4403 | | 24797010 | ELECTROLYTIC, 50V 1UF M |
| C4404 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C4405 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C4406 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C4407 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C4408 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| C4409 | | 24794331 | ELECTROLYTIC, 16V 330UF M |
| C4410 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C4411 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C4412 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| C4490 | | 24503190 | PLASTIC FILM, 400V 0.12UF J |
| C4491 | | 24503190 | PLASTIC FILM, 400V 0.12UF J |
| C4601 | | 24503040 | PLASTIC FILM, 63V 0.082UF J |
| C4690 | | 24503041 | PLASTIC FILM , 63V 0.1UF J |
| C4699 | | 24073058 | ELECTROLYTIC, 25V 2200UF M 3A |
| C5020 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| C5030 | | 24763101 | ELECTROLYTIC, 16V 100UF M |
| C5080 | | 24206010 | ELECTROLYTIC, 50V 1.0UF M 7L 3A |
| C5090 | | 24763101 | ELECTROLYTIC, 16V 100UF M |
| CA03 | | 24105180 | CERAMIC CHIP, 50V CH 18PF J |
| CA04 | | 24105180 | CERAMIC CHIP, 50V CH 18PF J |
| CA09 | | 24105101 | CERAMIC CHIP, 50V CH 100PF J |
| CA10 | | 24105101 | CERAMIC CHIP, 50V CH 100PF J |
| CA12 | | 24105101 | CERAMIC CHIP, 50V CH 100PF J |
| CA14 | #2 | 24212103 | CERAMIC DISC, 50V B 10000PF K |
| CA15 | | 24105101 | CERAMIC CHIP, 50V CH 100PF J |
| CA16 | | 24105101 | CERAMIC CHIP, 50V CH 100PF J |
| CA17 | | 24105101 | CERAMIC CHIP, 50V CH 100PF J |
| CA33 | | 24793470 | ELECTROLYTIC CE04G 10V 47UF M |
| CA42 | | 24794101 | ELECTROLYTIC, 16V 100UF M |
| CA43 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CA44 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CA45 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CA67 | | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z |
| CA68 | | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CA69 | | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z |
| CA70 | | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CA95 | #2 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CB04 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CB05 | | 24109222 | CERAMIC CHIP, 50V B 2200PF K |
| CB06 | | 24105561 | CERAMIC CHIP, 50V CH 560PF J |
| CB07 | | 24109332 | CERAMIC CHIP, 50V B 3300PF K |
| CB21 | | 24503041 | PLASTIC FILM , 63V 0.1UF J |
| CB22 | | 24203470 | ELECTROLYTIC, 16V 47UF M 7L 3A |
| CB40 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CB41 | | 24109222 | CERAMIC CHIP, 50V B 2200PF K |
| CB42 | | 24105561 | CERAMIC CHIP, 50V CH 560PF J |
| CB43 | | 24109332 | CERAMIC CHIP, 50V B 3300PF K |
| CB90 | | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z |
| CC01 | | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z |
| CC02 | | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z |
| CC03 | | 24212332 | CERAMIC DISC, 50V B 3300PF K @U903C |
| | | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z @U906 |
| CC04 | | 24105220 | CERAMIC CHIP, 50V CH 22PF J @U902 |
| | | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z @U906 |
| CC05 | | 24212332 | CERAMIC DISC, 50V B 3300PF K @U903C |
| | | 24109102 | CERAMIC CHIP, 50V B 1000PF K @U906 |
| CC06 | | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC12 | | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC13 | | 24109102 | CERAMIC CHIP, 50V B 1000PF K |

| Location No. | Parts No. | Description |
|---|---|---|
| CC14 | 24212102 | CERAMIC DISC, 50V B 1000PF K |
| CC15 | 24212102 | CERAMIC DISC, 50V B 1000PF K @U903C |
| | 24232103 | CERAMIC DISC, 50V F 0.01UF Z @U904 |
| CC16 | 24590103 | PLASTIC FILM, 50V 0.01UF J |
| CC21 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC22 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC24 | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CC25 | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CC30 | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z |
| CC31 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC32 | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z |
| CC60 | 24109223 | CERAMIC CHIP, 25V B 0.022UF K |
| CC61 | 24109223 | CERAMIC CHIP, 25V B 0.022UF K |
| CC62 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC63 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC64 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC65 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC66 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC67 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC68 | 24109223 | CERAMIC CHIP, 25V B 0.022UF K |
| CC69 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC70 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC71 | 24109223 | CERAMIC CHIP, 25V B 0.022UF K |
| CC72 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC73 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC74 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC75 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC77 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC78 | 24109102 | CERAMIC CHIP, 50V B 1000PF K |
| CC80 | 24436470 | CERAMIC DISC, 50V SL 47PF J |
| CC182 | 24105151 | CERAMIC CHIP, 50V CH 150PF J |
| CD181 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CD182 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CD183 | 24092733 | CERAMIC CHIP, 50V B 0.022UF K |
| CD184 | 24092733 | CERAMIC CHIP, 50V B 0.022UF K |
| CD185 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CD186 | 24092733 | CERAMIC CHIP, 50V B 0.022UF K |
| CD187 | 24762221 | ELECTROLYTIC, 10V 220UF M |
| CD188 | 24109222 | CERAMIC CHIP, 50V B 2200PF K |
| CD189 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CR01 | 24206010 | ELECTROLYTIC, 50V 1.0UF M 7L 3A |
| CR02 | 24100103 | CERAMIC CHIP, 50V F 0.01UF Z |
| CR07 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CR08 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CR09 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CR10 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CR11 | 24105470 | CERAMIC CHIP, 50V CH 47PF J |
| CR12 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CR13 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CR14 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CR15 | 24794470 | ELECTROLYTIC, 16V 47UF M |
| CR16 | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CS01 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS02 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS03 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS04 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS05 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS06 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS07 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS08 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS09 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS10 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS11 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CS12 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CS13 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CS14 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CS18 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CS19 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CS20 | 24797478 | ELECTROLYTIC, 50V 0.47UF M |
| CS23 | 24797478 | ELECTROLYTIC, 50V 0.47UF M |
| CS24 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS25 | 24797229 | ELECTROLYTIC, 50V 2.2UF M |
| CS26 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CS27 | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CT01 | 24792221 | ELECTROLYTIC CE04G 6.3V 220UF M |
| CT02 | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |

| Location No. | | Parts No. | Description |
|---|---|---|---|
| CT03 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CT04 | | 24793101 | ELECTROLYTIC, 10V 100UF M |
| CT05 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CT06 | | 24793470 | ELECTROLYTIC CE04G 10V 47UF M |
| CT07 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CT08 | | 24105560 | CERAMIC CHIP, 50V CH 56PF J |
| CT09 | | 24105560 | CERAMIC CHIP, 50V CH 56PF J |
| CT10 | | 24793470 | ELECTROLYTIC CE04G 10V 47UF M |
| CT11 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CT12 | | 24793470 | ELECTROLYTIC CE04G 10V 47UF M |
| CT13 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CT14 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CT17 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CT19 | | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CT20 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CT23 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CT99 | | 24763102 | ELECTROLYTIC, 16V 1000UF M |
| CV02 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV03 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV04 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV06 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV07 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV08 | | 24203101 | ELECTROLYTIC, 16V 100UF M 7L 3A |
| CV09 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV10 | | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CV12 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV13 | | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CV14 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV15 | | 24092743 | CERAMIC CHIP, 10V F 0.47UF Z |
| CV23 | | 24203101 | ELECTROLYTIC, 16V 100UF M 7L 3A |
| CV24 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV25 | | 24794470 | ELECTROLYTIC, 16V 47UF M |
| CV35 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV36 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV39 | | 24794101 | ELECTROLYTIC, 16V 100UF M |
| CV40 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV41 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV42 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV44 | | 24092743 | CERAMIC CHIP, 10V F 0.47UF Z |
| CV45 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV46 | | 24794101 | ELECTROLYTIC, 16V 100UF M |
| CV48 | | 24503041 | PLASTIC FILM , 63V 0.1UF J |
| CV65 | | 24203101 | ELECTROLYTIC, 16V 100UF M 7L 3A |
| CV66 | | 24203101 | ELECTROLYTIC, 16V 100UF M 7L 3A |
| CV70 | | 24794100 | ELECTROLYTIC, 16V 10UF M |
| CV71 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CV72 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV73 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV74 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV75 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV76 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CV77 | | 24092538 | CERAMIC CHIP, 10V F 1UF Z |
| CZ01 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CZ02 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CZ03 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CZ04 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CZ07 | | 24100104 | CERAMIC CHIP, 25V F 0.1UF Z |
| CZ46 | | 24109103 | CERAMIC CHIP, 50V B 0.01UF K |
| CZ47 | | 24794101 | ELECTROLYTIC, 16V 100UF M |
| G484 | | 24590152 | PLASTIC FILM, 50V 1500PF J |
| **RESISTORS** | | | |
| R101 | | 24553223 | OXIDE METAL FILM, 1W 22K OHM J |
| R208 | | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R209 | | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R211 | | 24366623 | CARBON FILM, 1/6W 62K OHM J |
| R217 | | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R218 | | 24366223 | CARBON FILM, 1/6W 22K OHM J |
| R219 | | 24366223 | CARBON FILM, 1/6W 22K OHM J |
| R227 | #1 | 24366303 | CARBON FILM, 1/6W 30K OHM J |
| | #2 | 24366273 | CARBON FILM, 1/6W 27K OHM J |
| R245 | | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| R271 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R272 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R303 | | 24321109 | OXIDE METAL FILM, 1/2W 1 OHM J |
| R305 | | 24322109 | OXIDE METAL FILM, 1W 1 OHM J |

| Location No. | | Parts No. | Description |
|---|---|---|---|
| R307 | | 24366101 | CARBON FILM, 1/6W 100 OHM J |
| R315 | | 24366332 | CARBON FILM, 1/6W 3.3K OHM J |
| R318 | | 24366101 | CARBON FILM, 1/6W 100 OHM J |
| R319 | | 24366101 | CARBON FILM, 1/6W 100 OHM J |
| R320 | | 24366274 | CARBON FILM, 1/6W 270K OHM J |
| R322 | | 24366102 | CARBON FILM, 1/6W 1K OHM J |
| R326 | | 24338109 | OXIDE METAL FILM, 1W 1 OHM J |
| R327 | | 24338109 | OXIDE METAL FILM, 1W 1 OHM J |
| R329 | | 24366102 | CARBON FILM, 1/6W 1K OHM J |
| R330 | | 24552103 | OXIDE METAL FILM, 1/2W 10K OHM J |
| R331 | | 24366104 | CARBON FILM, 1/6W 100K OHM J |
| R332 | | 24366334 | CARBON FILM, 1/6W 330K OHM J |
| R333 | | 24552103 | OXIDE METAL FILM, 1/2W 10K OHM J |
| R334 | | 24366823 | CARBON FILM, 1/6W 82K OHM J |
| R335 | | 24366153 | CARBON FILM, 1/6W 15K OHM J |
| R336 | | 24383821 | OXIDE METAL FILM, 2W 820 OHM J |
| R339 | | 24366274 | CARBON FILM, 1/6W 270K OHM J |
| R340 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R342 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R343 | | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R344 | | 24366823 | CARBON FILM, 1/6W 82K OHM J |
| R370 | | 24366822 | CARBON FILM, 1/6W 8.2K OHM J |
| R371 | | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R372 | | 24366220 | CARBON FILM, 1/6W 22 OHM J |
| R375 | | 24552150 | OXIDE METAL FILM, 1/2W 15 OHM J |
| R399 | | 24366224 | CARBON FILM, 1/6W 220K OHM J |
| R400 | | 24946561 | CARBON COMPOSITION, 1/2W 560 OHM K |
| R405 | | 24553682 | OXIDE METAL FILM, 1W 6.8K OHM J |
| R411 | | 24366180 | CARBON FILM, 1/6W 18 OHM J |
| R412 | | 24323228 | OXIDE METAL FILM, 2W 0.22 OHM J |
| R415 | | 24383271 | OXIDE METAL FILM, 2W 270 OHM J |
| R416 | | 24381563 | OXIDE METAL FILM, 1/2W 56K OHM J |
| R417 | | 24383680 | OXIDE METAL FILM, 2W 68 OHM J |
| R423 | | 24011471 | CHIP, METAL FILM, 1/20W 470 OHM J |
| R424 | | 24366751 | CARBON FILM, 1/6W 750 OHM J |
| R425 | | 24552182 | OXIDE METAL FILM, 1/2W 1.8K OHM J |
| R426 | | 24366751 | CARBON FILM, 1/6W 750 OHM J |
| R427 | | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R428 | | 24366561 | CARBON FILM, 1/6W 560 OHM J |
| R429 | | 24553100 | OXIDE METAL FILM, 1W 10 OHM J |
| R430 | #1 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| | #2 | 24011303 | CHIP, METAL FILM, 1/20W 30K OHM J |
| R431 | | 24011272 | CHIP, 1/20W 2.7K OHM J |
| R432 | | 24011272 | CHIP, 1/20W 2.7K OHM J |
| R433 | | 24366681 | CARBON FILM, 1/6W 680 OHM J |
| R434 | | 24366472 | CARBON FILM, 1/6W 4.7K OHM J |
| R435 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J @U902 |
| | | 24366184 | CARBON FILM, 1/6W 18OK OHM J @U904 |
| R436 | #1 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| | #2 | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| R437 | | 24011272 | CHIP, 1/20W 2.7K OHM J |
| R439 | | 24011333 | CHIP, METAL FILM, 1/20W 33K OHM J |
| R441 | | 24383561 | OXIDE METAL FILM, 2W 560 OHM J |
| R442 | | 24011333 | CHIP, METAL FILM, 1/20W 33K OHM J @U902 |
| | | 24553153 | OXIDE METAL FILM, 1W 15K OHM J @U904 |
| R443 | | 24011563 | CHIP, METAL FILM, 1/20W 56K OHM J |
| R444 | | 24011563 | CHIP, METAL FILM, 1/20W 56K OHM J |
| R445 | | 24011563 | CHIP, METAL FILM, 1/20W 56K OHM J @U902 |
| | | 24321129 | OXIDE METAL FILM, 1/2W 1.2 OHM J @U904 |
| R452 | | 24011822 | CHIP, METAL FILM, 1/20W 8.2K OHM J |
| R460 | | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R461 | | 24366182 | CARBON FILM, 1/6W 1.8K OHM J |
| R462 | | 24366473 | CARBON FILM, 1/6W 47K OHM J |
| R463 | | 24366473 | CARBON FILM, 1/6W 47K OHM J |
| R464 | | 24552331 | OXIDE METAL FILM, 1/2W 330 OHM J |
| R465 | | 24366242 | CARBON FILM, 1/6W 2.4K OHM J |
| R466 | | 24383220 | OXIDE METAL FILM, 2W 22 OHM J |
| R467 | | 24383220 | OXIDE METAL FILM, 2W 22 OHM J |
| R468 | | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R469 | | 24366823 | CARBON FILM, 1/6W 82K OHM J |
| R470 | | 24339568 | OXIDE METAL FILM, 2W 0.56 OHM J |
| R471 | | 24531271 | FUSIBLE, 1/2W 270 OHM J |
| R472 | | 24366101 | CARBON FILM, 1/6W 100 OHM J |
| R473 | | 24366183 | CARBON FILM, 1/6W 18K OHM J |
| R474 | | 24376393 | CARBON FILM, 1/2W 39K OHM J |
| R476 | | 24366471 | CARBON FILM, 1/6W 470 OHM J |

| Location No. | Parts No. | Description |
|---|---|---|
| R477 | 24366102 | CARBON FILM, 1/6W 1K OHM J |
| R478 | 24381333 | OXIDE METAL FILM, 1/2W 33K OHM J |
| R479 | 24531680 | FUSIBLE, 1/2W 68 OHM J |
| R480 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R481 | 24366123 | CARBON FILM, 1/6W 12K OHM J |
| R482 | 24366183 | CARBON FILM, 1/6W 18K OHM J |
| R483 | 24366223 | CARBON FILM, 1/6W 22K OHM J |
| R484 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R485 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R486 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R487 | 24366474 | CARBON FILM, 1/6W 470K OHM J |
| R488 | 24366154 | CARBON FILM, 1/6W 150K OHM J |
| R489 | 24366104 | CARBON FILM, 1/6W 100K OHM J |
| R491 | 24366101 | CARBON FILM, 1/6W 100 OHM J |
| R492 | 24366472 | CARBON FILM, 1/6W 4.7K OHM J |
| R495 | 24327224 | METAL FILM, 1/4W 220K OHM F |
| R498 | 24366274 | CARBON FILM, 1/6W 270K OHM J |
| R499 | 24366564 | CARBON FILM, 1/6W 560K OHM J |
| R501 | 24011682 | CHIP, METAL FILM, 1/20W 6.8K OHM J |
| R502 | 24011272 | CHIP, 1/20W 2.7K OHM J |
| R504 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R505 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R506 | 24011273 | CHIP, 1/20W 27K OHM J |
| R507 | 24011392 | CHIP, 1/20W 3.9K OHM J |
| R508 | 24011682 | CHIP, METAL FILM, 1/20W 6.8K OHM J |
| R509 | 24011153 | CHIP, METAL FILM, 1/2OW 15K OHM J |
| R511 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R512 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R513 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R514 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R515 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R516 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R517 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R519 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| R520 | 24366681 | CARBON FILM, 1/6W 680 OHM J |
| R543 | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| R548 | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| R552 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R553 | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| R554 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R555 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R561 | 24552181 | OXIDE METAL FILM, 1/2W 180 OHM J |
| R569 | 24011823 | CHIP, METAL FILM, 1/20W 82K OHM J |
| R605 | 24872822 | CHIP, 1/16W 8.2K OHM J |
| R606 | 24872822 | CHIP, 1/16W 8.2K OHM J |
| R607 | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| R608 | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| R609 | 24011563 | CHIP, METAL FILM, 1/20W 56K OHM J |
| R610 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R611 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R612 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R613 | 24011224 | CHIP, METAL FILM, 1/20W 220K OHM J |
| R615 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R616 | 24011393 | CHIP, 1/20W 39K OHM J |
| R617 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| R618 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| R619 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| R620 | 24011123 | CHIP, METAL FILM, 1/20W 12K OHM J |
| R621 | 24011393 | CHIP, 1/20W 39K OHM J |
| R622 | 24011392 | CHIP, 1/20W 3.9K OHM J |
| R623 | 24011332 | CHIP, METAL FILM, 1/20W 3.3K OHM J |
| R624 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R625 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R626 | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| R627 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R628 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R630 | 24872822 | CHIP, 1/16W 8.2K OHM J |
| R631 | 24872822 | CHIP, 1/16W 8.2K OHM J |
| R634 | 24366229 | CARBON FILM, 1/6W 2.2 OHM J |
| R636 | 24011682 | CHIP, METAL FILM, 1/20W 6.8K OHM J |
| R637 | 24011272 | CHIP, 1/20W 2.7K OHM J |
| R638 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R639 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| R640 | 24011332 | CHIP, METAL FILM, 1/20W 3.3K OHM J |
| R641 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| R642 | 24011392 | CHIP, 1/20W 3.9K OHM J |

| Location No. | Parts No. | Description |
|---|---|---|
| R643 | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| R644 | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| R645 | 24366229 | CARBON FILM, 1/6W 2.2 OHM J |
| R646 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| R648 | 24366229 | CARBON FILM, 1/6W 2.2 OHM J |
| R649 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| R661 | 24510159 | CERAMIC COVERD, 5W 1.5 OHM J @U902 |
| | 24552221 | OXIDE METAL FILM, 1/2W 220 OHM J @U903C |
| R662 | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J @U902 |
| | 24552221 | OXIDE METAL FILM, 1/2W 220 OHM J @U903C |
| R663 | 24011682 | CHIP, METAL FILM, 1/20W 6.8K OHM J |
| R664 | 24011682 | CHIP, METAL FILM, 1/20W 6.8K OHM J |
| R670 | 24011822 | CHIP, METAL FILM, 1/20W 8.2K OHM J |
| R671 | 24011272 | CHIP, 1/20W 2.7K OHM J @U902 |
| | 24366102 | CARBON FILM, 1/6W 1K OHM J @U906 |
| R672 | 24011822 | CHIP, METAL FILM, 1/20W 8.2K OHM J @U902 |
| | 24366102 | CARBON FILM, 1/6W 1K OHM J @U906 |
| R673 | 24011272 | CHIP, 1/20W 2.7K OHM J @U902 |
| | 24366102 | CARBON FILM, 1/6W 1K OHM J @U906 |
| R674 | 24011122 | CHIP, METAL FILM, 1/20W 1.2K OHM J |
| R675 | 24366102 | CARBON FILM, 1/6W 1K OHM J |
| R676 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| R677 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| R682 | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J @U902 |
| | 24366102 | CARBON FILM, 1/6W 1K OHM J @U906 |
| R683 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J @U902 |
| | 24366102 | CARBON FILM, 1/6W 1K OHM J @U906 |
| R684 | 24366229 | CARBON FILM, 1/6W 2.2 OHM J |
| R685 | 24366229 | CARBON FILM, 1/6W 2.2 OHM J |
| R686 | 24366229 | CARBON FILM, 1/6W 2.2 OHM J |
| R687 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| R688 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| R689 | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| R690 | 24552122 | OXIDE METAL FILM, 1/2W 1.2K OHM J |
| R691 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| R692 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| R702 | 24552221 | OXIDE METAL FILM, 1/2W 220 OHM J |
| R712 | 24366101 | CARBON FILM, 1/6W 100 OHM J |
| R715 | 24366223 | CARBON FILM, 1/6W 22K OHM J |
| R716 | 24366273 | CARBON FILM, 1/6W 27K OHM J |
| R717 | 24366183 | CARBON FILM, 1/6W 18K OHM J |
| R718 | 24366681 | CARBON FILM, 1/6W 680 OHM J |
| R722 | 24552471 | OXIDE METAL FILM, 1/2W 470 OHM J |
| R723 | 24366101 | CARBON FILM, 1/6W 100 OHM J |
| R724 | 24366121 | CARBON FILM, 1/6W 120 OHM J |
| R725 | 24366821 | CARBON FILM, 1/6W 820 OHM J |
| R730 | 24552100 | OXIDE METAL FILM, 1/2W 10 OHM J |
| R731 | 24553331 | OXIDE METAL FILM, 1W 330 OHM J |
| R732 | 24366220 | CARBON FILM, 1/6W 22 OHM J |
| R733 | 24366683 | CARBON FILM, 1/6W 68K OHM J |
| R734 | 24366220 | CARBON FILM, 1/6W 22 OHM J |
| R735 | 24366683 | CARBON FILM, 1/6W 68K OHM J |
| R736 | 24366470 | CARBON FILM, 1/6W 47 OHM J |
| R737 | 24366681 | CARBON FILM, 1/6W 680 OHM J |
| R738 | 24366102 | CARBON FILM, 1/6W 1K OHM J |
| R739 | 24366681 | CARBON FILM, 1/6W 680 OHM J |
| R740 | 24366470 | CARBON FILM, 1/6W 47 OHM J |
| R741 | 24366229 | CARBON FILM, 1/6W 2.2 OHM J |
| R742 | 24366229 | CARBON FILM, 1/6W 2.2 OHM J |
| R743 | 24554121 | OXIDE FILM 2W 120. J |
| R744 | 24366122 | CARBON FILM, 1/6W 1.2K OHM J |
| R745 | 24366122 | CARBON FILM, 1/6W 1.2K OHM J |
| ⚠ R801 | 24004716 | METAL GLAZE 1/2W 2R2M J |
| R803 | 24382683 | OXIDE METAL FILM, 1W 68K OHM J |
| R805 | 24366221 | CARBON FILM, 1/6W 220 OHM J |
| R806 | 24381473 | OXIDE METAL FILM, 1/2W 47K OHM J |
| R807 | 24366154 | CARBON FILM, 1/6W 150K OHM J |
| R808 | 24019484 | THERMISTOR, PTC, AC265 4R5A |
| R810 | 24568159 | CERAMIC COVERED, 7W 1.5 OHM J |
| R814 | 24366682 | CARBON FILM, 1/6W 6.8K OHM J |
| R815 | 24552102 | OXIDE METAL FILM, 1/2W 1K OHM J |
| R818 | 24019460 | METAL PLATE, 2W 0.1 OHM J |
| R819 | 24381820 | OXIDE METAL FILM, 1/2W 82 OHM J |
| R823 | 24552272 | OXIDE METAL FILM, 1/2W 2.7K OHM J |
| R824 | 24569689 | CERAMIC COVERED, 10W 6.8 OHM J |
| R827 | 24366681 | CARBON FILM, 1/6W 680 OHM J |

| Location No. | Parts No. | Description |
|---|---|---|
| R828 | 24366821 | CARBON FILM, 1/6W 820 OHM J |
| R829 | 24321228 | OXIDE METAL FILM, 1/2W 0.22 OHM J |
| R831 | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R832 | 24366472 | CARBON FILM, 1/6W 4.7K OHM J |
| R833 | 24366222 | CARBON FILM, 1/6W 2.2K OHM J |
| R834 | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R841 | 24546479 | FUSIBLE, 1/2W 4.7 OHM J |
| R842 | 24366152 | CARBON FILM, 1/6W 1.5K OHM J |
| R843 | 24366331 | CARBON FILM, 1/6W 330 OHM J |
| R849 | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R850 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R851 | 24366102 | CARBON FILM, 1/6W 1K OHM J |
| R852 | 24366225 | CARBON FILM, 1/6W 2.2M OHM J |
| R875 | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R876 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| ⚠ R899 | 24004718 | METAL GLAZE 1/2W 8R2M J |
| R901 | 24376471 | CARBON FILM, 1/2W 470 OHM J |
| R902 | 24376471 | CARBON FILM, 1/2W 470 OHM J |
| R903 | 24376471 | CARBON FILM, 1/2W 470 OHM J |
| R904 | 24366472 | CARBON FILM, 1/6W 4.7K OHM J |
| R905 | 24366150 | CARBON FILM, 1/6W 15 OHM J |
| R909 | 24366100 | CARBON FILM, 1/6W 10 OHM J |
| R914 | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R915 | 24366680 | CARBON FILM, 1/6W 68 OHM J |
| R916 | 24366270 | CARBON FILM, 1/6W 27 OHM J |
| R917 | 24366391 | CARBON FILM, 1/6W 390 OHM J |
| R918 | 24366180 | CARBON FILM, 1/6W 18 OHM J |
| R920 | 24000960 | FUSIBLE Z 2W 2.7 J |
| R921 | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R922 | 24366680 | CARBON FILM, 1/6W 68 OHM J |
| R924 | 24366180 | CARBON FILM, 1/6W 18 OHM J |
| R925 | 24366391 | CARBON FILM, 1/6W 390 OHM J |
| R928 | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R929 | 24366680 | CARBON FILM, 1/6W 68 OHM J |
| R930 | 24366180 | CARBON FILM, 1/6W 18 OHM J |
| R932 | 24366332 | CARBON FILM, 1/6W 3.3K OHM J |
| R934 | 24366361 | CARBON FILM, 1/6W 360 OHM J |
| R935 | 24366102 | CARBON FILM, 1/6W 1K OHM J |
| R936 | 24545829 | FUSIBLE, 1/4W 8.2 OHM J |
| R937 | 24366391 | CARBON FILM, 1/6W 390 OHM J |
| R942 | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R943 | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R944 | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R945 | 24366270 | CARBON FILM, 1/6W 27 OHM J |
| R946 | 24366270 | CARBON FILM, 1/6W 27 OHM J |
| R960 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R961 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R962 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R963 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R964 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R965 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R966 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R967 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R968 | 24383153 | OXIDE METAL FILM, 2W 15K OHM J |
| R969 | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R970 | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R971 | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R977 | 24366561 | CARBON FILM, 1/6W 560 OHM J |
| R980 | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R981 | 24366471 | CARBON FILM, 1/6W 470 OHM J |
| R992 | 24366150 | CARBON FILM, 1/6W 15 OHM J |
| R2020 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R2060 | 24366221 | CARBON FILM, 1/6W 220 OHM J |
| R2105 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R2106 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R2107 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R2149 | 24871681 | CHIP, 1/8W 680 OHM J |
| R2150 | 24871681 | CHIP, 1/8W 680 OHM J |
| R2151 | 24871681 | CHIP, 1/8W 680 OHM J |
| R2155 | 24871102 | CHIP, METAL FILM, 1/8W 1K OHM J |
| R2156 | 24871102 | CHIP, METAL FILM, 1/8W 1K OHM J |
| R2157 | 24871102 | CHIP, METAL FILM, 1/8W 1K OHM J |
| R2158 | 24011563 | CHIP, METAL FILM, 1/20W 56K OHM J |
| R2159 | 24011563 | CHIP, METAL FILM, 1/20W 56K OHM J |
| R3407 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R4310 | 24366183 | CARBON FILM, 1/6W 18K OHM J |

| Location No. | Parts No. | Description |
|---|---|---|
| R4401 | 24011302 | CHIP, METAL FILM, 1/20W 3K OHM J |
| R4403 | 24011471 | CHIP, METAL FILM, 1/20W 470 OHM J |
| R4404 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| R4405 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R4406 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| R4407 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| R4408 | 24011361 | CHIP, 1/20W 360 OHM J |
| R4409 | 24552471 | OXIDE METAL FILM, 1/2W 470 OHM J |
| R4410 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R4411 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J @U902 |
| | 24366101 | CARBON FILM, 1/6W 100 OHM J @U904 |
| R4412 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R4413 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R4414 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R4422 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R4430 | 24011622 | CHIP, METAL FILM, 1/20W 6.2K OHM J |
| R4466 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R4467 | 24011332 | CHIP, METAL FILM, 1/20W 3.3K OHM J |
| R4473 | 24011471 | CHIP, METAL FILM, 1/20W 470 OHM J |
| R4474 | 24011471 | CHIP, METAL FILM, 1/20W 470 OHM J |
| R4490 | 24382222 | OXIDE METAL FILM, 1W 2.2K OHM J |
| R4491 | 24366392 | CARBON FILM, 1/6W 3.9K OHM J |
| R4492 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R4493 | 24382104 | OXIDE METAL FILM, 1W 100K OHM J |
| R4495 | 24366473 | CARBON FILM, 1/6W 47K OHM J |
| R4601 | 24366101 | CARBON FILM, 1/6W 100 OHM J |
| R4602 | 24366562 | CARBON FILM, 1/6W 5.6K OHM J |
| R4690 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R4799 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| R5020 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| R5030 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RA01 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA02 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| RA04 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA05 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA07 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RA08 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA09 | 24011682 | CHIP, METAL FILM, 1/20W 6.8K OHM J |
| RA10 | 24011682 | CHIP, METAL FILM, 1/20W 6.8K OHM J |
| RA11 | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| RA12 | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| RA13 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA16 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA17 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA18 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA19 | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| RA22 | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| RA23 | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| RA24 | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| RA25 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA26 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA27 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA28 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA29 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RA30 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RA31 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA33 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| RA34 #2 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| RA35 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA36 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA37 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RA38 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RA39 | 24011224 | CHIP, METAL FILM, 1/20W 220K OHM J |
| RA40 | 24011391 | CHIP, 1/20W 390 OHM J |
| RA43 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA46 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RA48 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA50 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RA60 | 24011470 | CHIP, METAL FILM, 1/20W 47 OHM J |
| RA69 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RA70 | 24011333 | CHIP, METAL FILM, 1/20W 33K OHM J |
| RA71 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J @U902 |
| | 24366683 | CARBON FILM, 1/6W 68K OHM J @U903C |
| RA72 | 24366223 | CARBON FILM, 1/6W 22K OHM J |
| RA73 | 24011470 | CHIP, METAL FILM, 1/20W 47 OHM J @U902 |
| | 24366103 | CARBON FILM, 1/6W 10K OHM J @U903C |

| Location No. | | Parts No. | Description |
|---|---|---|---|
| RA75 | | 24011333 | CHIP, METAL FILM, 1/20W 33K OHM J |
| RA76 | | 24011333 | CHIP, METAL FILM, 1/20W 33K OHM J |
| RA78 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA80 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RA81 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RA82 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RA91 | #2 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RA92 | #2 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA97 | #2 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RA98 | #2 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RA99 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RB01 | | 24366271 | CARBON FILM, 1/6W 270 OHM J |
| RB03 | | 24366271 | CARBON FILM, 1/6W 270 OHM J |
| RB04 | | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| RB05 | | 24011105 | CHIP, METAL FILM, 1/20W 1M OHM J |
| RB06 | | 24011123 | CHIP, METAL FILM, 1/20W 12K OHM J |
| RB07 | | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RB08 | | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RB09 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RB10 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RB11 | | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RB12 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RB13 | | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J @U902 |
| | | 24366223 | CARBON FILM, 1/6W 22K OHM J @U903B |
| RB22 | | 24366470 | CARBON FILM, 1/6W 47 OHM J |
| RB32 | | 24011105 | CHIP, METAL FILM, 1/20W 1M OHM J |
| RB33 | | 24011123 | CHIP, METAL FILM, 1/20W 12K OHM J |
| RB34 | | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RB35 | | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RB43 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RB44 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RB45 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RB46 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RB49 | | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| RB81 | | 24011122 | CHIP, METAL FILM, 1/20W 1.2K OHM J |
| RB82 | | 24011123 | CHIP, METAL FILM, 1/20W 12K OHM J |
| RB83 | | 24011123 | CHIP, METAL FILM, 1/20W 12K OHM J |
| RB90 | | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RB91 | | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| RB92 | | 24011271 | CHIP, 1/20W 270 OHM J |
| RB93 | | 24011271 | CHIP, 1/20W 270 OHM J |
| RB94 | | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RB95 | | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RB96 | | 24011273 | CHIP, 1/20W 27K OHM J |
| RB97 | | 24011273 | CHIP, 1/20W 27K OHM J |
| RB98 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RC01 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RC02 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RC03 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RC04 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RC05 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RC06 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RC07 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RC08 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RC09 | | 24000445 | CHIP JUMPER, 1608TYPE |
| RC10 | | 24000445 | CHIP JUMPER, 1608TYPE |
| RC11 | | 24366681 | CARBON FILM, 1/6W 680 OHM J |
| RC12 | | 24366681 | CARBON FILM, 1/6W 680 OHM J |
| RD12 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RD135 | | 24000445 | CHIP JUMPER, 1608TYPE |
| RD179 | | 24011221 | CHIP, METAL FILM, 1/20W 220 OHM J |
| RD180 | | 24011221 | CHIP, METAL FILM, 1/20W 220 OHM J |
| RD181 | | 24011151 | CHIP, METAL FILM, 1/20W 150 OHM J |
| RD182 | | 24011470 | CHIP, METAL FILM, 1/20W 47 OHM J |
| RD183 | | 24011151 | CHIP, METAL FILM, 1/20W 150 OHM J |
| RD184 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RD185 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RD186 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RD187 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RD188 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RD189 | | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| RD190 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RD191 | | 24011151 | CHIP, METAL FILM, 1/20W 150 OHM J |
| RJ01 | #2 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| RJ02 | #2 | 24366102 | CARBON FILM, 1/6W 1K OHM J |
| RJ04 | #2 | 24366102 | CARBON FILM, 1/6W 1K OHM J |

| Location No. | | Parts No. | Description |
|---|---|---|---|
| RJ05 | #2 | 24323479 | METAL FILM, 2W 4.7 OHM J |
| RJ06 | #2 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| RJ10 | #2 | 24552560 | OXIDE METAL FILM, 1/2W 56 OHM J |
| RR01 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RR02 | | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| RR03 | | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RR04 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RR05 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RR06 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RR07 | | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RR08 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RR09 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RR11 | | 24011821 | CHIP, 1/20W 820 OHM J |
| RR12 | | 24011821 | CHIP, 1/20W 820 OHM J |
| RR13 | | 24011821 | CHIP, 1/20W 820 OHM J |
| RR14 | | 24011152 | CHIP, METAL FILM, 1/20W 1.5K OHM J |
| RR15 | | 24011152 | CHIP, METAL FILM, 1/20W 1.5K OHM J |
| RR16 | | 24011152 | CHIP, METAL FILM, 1/20W 1.5K OHM J |
| RR17 | | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RR18 | | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RR19 | | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RR20 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RR21 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RR22 | | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RR23 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RR25 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RS01 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS02 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS03 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS04 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS05 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS06 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS07 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS08 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS09 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS10 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS11 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RS12 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RS13 | | 24011271 | CHIP, 1/20W 270 OHM J |
| RS14 | | 24011271 | CHIP, 1/20W 270 OHM J |
| RS15 | | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| RS16 | | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| RS17 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS18 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS19 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RS20 | | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RS21 | | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RS22 | | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RS23 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS24 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS25 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS26 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS27 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS28 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS29 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RS30 | | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RS31 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS32 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS33 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS34 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS37 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS38 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS49 | | 24011271 | CHIP, 1/20W 270 OHM J |
| RS50 | | 24011271 | CHIP, 1/20W 270 OHM J |
| RS51 | | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| RS52 | | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| RS53 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS54 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS55 | | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RS56 | | 24011104 | CHIP, METAL FILM, 1/20W 100K OHM J |
| RS58 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS59 | | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RS60 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS61 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS62 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RS63 | | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |

| Location No. | Parts No. | Description |
|---|---|---|
| RS64 | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RS65 | 24011681 | CHIP, METAL FILM, 1/20W 680 OHM J |
| RT01 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RT02 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RT03 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RT04 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RT05 | 24011100 | CHIP, METAL FILM, 1/20W 10 OHM J |
| RT06 | 24011332 | CHIP, METAL FILM, 1/20W 3.3K OHM J |
| RT07 | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| RT08 | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| RT09 | 24011332 | CHIP, METAL FILM, 1/20W 3.3K OHM J |
| RT10 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RT11 | 24011332 | CHIP, METAL FILM, 1/20W 3.3K OHM J |
| RT12 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RT13 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RT14 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RT15 | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| RT16 | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| RT18 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RT19 | 24000445 | CHIP JUMPER, 1608TYPE |
| RT20 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RT21 | 24011332 | CHIP, METAL FILM, 1/20W 3.3K OHM J |
| RT22 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RT23 | 24000445 | CHIP JUMPER, 1608TYPE |
| RT24 | 24000594 | CHIP, 1/16W 12K OHM F |
| RT26 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| RT27 | 24000594 | CHIP, 1/16W 12K OHM F |
| RT28 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RT29 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RT30 | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| RT31 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RT32 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RT33 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| RT34 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RT35 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RT37 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RT38 | 24011151 | CHIP, METAL FILM, 1/20W 150 OHM J |
| RT39 | 24011561 | CHIP, METAL FILM, 1/20W 560 OHM J |
| RT40 | 24011151 | CHIP, METAL FILM, 1/20W 150 OHM J |
| RT42 | 24011470 | CHIP, METAL FILM, 1/20W 47 OHM J |
| RT43 | 24011151 | CHIP, METAL FILM, 1/20W 150 OHM J |
| RT44 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RV04 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV05 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RV07 | 24367103 | CARBON FILM, 1/6W 10K OHM G |
| RV08 | 24367103 | CARBON FILM, 1/6W 10K OHM G |
| RV09 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV10 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV16 | 24011333 | CHIP, METAL FILM, 1/20W 33K OHM J |
| RV17 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RV18 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV19 | 24011471 | CHIP, METAL FILM, 1/20W 470 OHM J |
| RV20 | 24367103 | CARBON FILM, 1/6W 10K OHM G |
| RV21 | 24367392 | CARBON FILM, 1/6W 3.9K OHM G |
| RV22 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RV23 | 24552101 | OXIDE METAL FILM, 1/2W 100 OHM J |
| RV25 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV26 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RV27 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV28 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RV29 | 24011562 | CHIP, METAL FILM, 1/20W 5.6K OHM J |
| RV30 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV31 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV32 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV33 | 24367392 | CARBON FILM, 1/6W 3.9K OHM G |
| RV34 | 24367392 | CARBON FILM, 1/6W 3.9K OHM G |
| RV35 | 24872151 | CHIP, 1/16W 150 OHM J |
| RV36 | 24872151 | CHIP, 1/16W 150 OHM J |
| RV37 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV38 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV39 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV41 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV42 | 24011391 | CHIP, 1/20W 390 OHM J |
| RV43 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RV44 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV45 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |

| Location No. | Parts No. | Description |
|---|---|---|
| RV46 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RV47 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RV48 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RV60 | 24011222 | CHIP, METAL FILM, 1/20W 2.2K OHM J |
| RV61 | 24552101 | OXIDE METAL FILM, 1/2W 100 OHM J |
| RV62 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV63 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RV64 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV65 | 24552101 | OXIDE METAL FILM, 1/2W 100 OHM J |
| RV66 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV67 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RV68 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RV81 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV84 | 24366223 | CARBON FILM, 1/6W 22K OHM J |
| RV85 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV86 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J |
| RV87 | 24872750 | CHIP, METAL FILM, 1/16W 75 OHM J @U902 |
| | 24366750 | CARBON FILM, 1/6W 75 OHM J @U903C |
| RV88 | 24872151 | CHIP, 1/16W 150 OHM J @U902 |
| | 24366223 | CARBON FILM, 1/6W 22K OHM J @U903C |
| RV89 | 24872151 | CHIP, 1/16W 150 OHM J |
| RV90 | 24000445 | CHIP JUMPER, 1608TYPE |
| RV91 | 24000445 | CHIP JUMPER, 1608TYPE |
| RV92 | 24366683 | CARBON FILM, 1/6W 68K OHM J |
| RV94 | 24011750 | CHIP, METAL FILM, 1/20W 75 OHM J |
| RV95 | 24011750 | CHIP, METAL FILM, 1/20W 75 OHM J |
| RV96 | 24011750 | CHIP, METAL FILM, 1/20W 75 OHM J |
| RV99 | 24366750 | CARBON FILM, 1/6W 75 OHM J |
| RV281 | 24367102 | CARBON FILM, 1/6W 1K OHM G |
| RV331 | 24367102 | CARBON FILM, 1/6W 1K OHM G |
| RV341 | 24367102 | CARBON FILM, 1/6W 1K OHM G |
| RX01 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RX02 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| RZ01 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RZ02 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RZ03 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| RZ04 | 24011152 | CHIP, METAL FILM, 1/20W 1.5K OHM J |
| RZ05 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RZ06 | 24011152 | CHIP, METAL FILM, 1/20W 1.5K OHM J |
| RZ07 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RZ08 | 24011272 | CHIP, 1/20W 2.7K OHM J |
| RZ09 | 24011392 | CHIP, 1/20W 3.9K OHM J |
| RZ11 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RZ14 | 24011152 | CHIP, METAL FILM, 1/20W 1.5K OHM J |
| RZ17 | 24011223 | CHIP, METAL FILM, 1/20W 22K OHM J |
| RZ18 | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| RZ19 | 24011473 | CHIP, METAL FILM, 1/20W 47K OHM J |
| RZ20 | 24011152 | CHIP, METAL FILM, 1/20W 1.5K OHM J |
| RZ21 | 24011561 | CHIP, METAL FILM, 1/20W 560 OHM J |
| RZ22 | 24011332 | CHIP, METAL FILM, 1/20W 3.3K OHM J |
| RZ23 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| RZ24 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| RZ25 | 24000445 | CHIP JUMPER, 1608TYPE |
| RZ26 | 24000445 | CHIP JUMPER, 1608TYPE |
| RZ29 | 24011102 | CHIP, METAL FILM, 1/20W 1K OHM J |
| G299 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| G409 | 24946223 | CARBON COMPOSITION GF 1/2W 22K K |
| G601 | 24000445 | CHIP JUMPER, 1608TYPE |
| G602 | 24000445 | CHIP JUMPER, 1608TYPE |
| G603 | 24000445 | CHIP JUMPER, 1608TYPE |
| G604 | 24000445 | CHIP JUMPER, 1608TYPE |
| G638 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| G675 | 24011333 | CHIP, METAL FILM, 1/20W 33K OHM J |
| GA76 | 24366103 | CARBON FILM, 1/6W 10K OHM J |
| GC01 | 24000445 | CHIP JUMPER, 1608TYPE |
| GC02 | 24000445 | CHIP JUMPER, 1608TYPE |
| GC03 | 24000445 | CHIP JUMPER, 1608TYPE |
| GC04 | 24000445 | CHIP JUMPER, 1608TYPE |
| GC20 | 24000445 | CHIP JUMPER, 1608TYPE |
| GC80 | 24000824 | CHIP JUMPER, 2125TYPE |
| GC81 | 24000824 | CHIP JUMPER, 2125TYPE |
| GC82 | 24000824 | CHIP JUMPER, 2125TYPE |
| GC83 | 24000824 | CHIP JUMPER, 2125TYPE |
| GC84 | 24000824 | CHIP JUMPER, 2125TYPE |
| GC85 | 24000824 | CHIP JUMPER, 2125TYPE |
| GJ03 | 24000445 | CHIP JUMPER, 1608TYPE |

| Location No. | Parts No. | Description |
|---|---|---|
| GJ05 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ08 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ11 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ23 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ24 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ29 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ30 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ44 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ48 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ49 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ50 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ51 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ75 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ76 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ77 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ78 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ99 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ601 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ602 | 24000445 | CHIP JUMPER, 1608TYPE |
| GJ603 | 24000445 | CHIP JUMPER, 1608TYPE |
| GT03 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| GT04 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| GT05 | 24011472 | CHIP, METAL FILM, 1/20W 4.7K OHM J |
| GT07 | 24000445 | CHIP JUMPER, 1608TYPE |
| GT09 | 24011103 | CHIP, METAL FILM, 1/20W 10K OHM J |
| GV03 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| GV04 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| GV06 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| GV08 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| GV09 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| GV35 | 24011101 | CHIP, METAL FILM, 1/20W 100 OHM J |
| GV42 | 24011331 | CHIP, METAL FILM, 1/20W 330 OHM J |
| **COILS & TRANSFORMERS** | | |
| L101 | 23221803 | COIL, CHOKE, TLN3040D |
| L301 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L302 | 23289846 | COIL, PEAKING, TRF4101AT |
| L400 | 23289918 | COIL, PEAKING, TRF4100AU |
| L410 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L442 | 23248216 | COIL, CHOKE, TLN3459AH |
| L443 | 23233110 | COIL, LIN 22X40H 7A 12.5MMH TLN2227AH |
| L449 | 23248282 | COIL, CHOKE, TLN3458AH |
| L461 | 23248248 | COIL, CHOKE, TLN3500AH |
| L463 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L464 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L470 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L491 | 23248191 | COIL, CHOKE, TLN3351AD |
| L501 | 23289470 | COIL, PEAKING, TRF4470AF |
| L503 | 23289470 | COIL, PEAKING, TRF4470AF |
| L504 | 23238714 | COIL, PEAKING, TRF4100AJ |
| L505 | 23289840 | COIL, PEAKING, TRF4100AT |
| L510 | 23103852 | COIL, FILTER, TEM2028AH |
| L511 | 23103845 | COIL, TEM2030AY |
| L512 | 23103845 | COIL, TEM2030AY |
| L514 | 23103852 | COIL, FILTER, TEM2028AH |
| L515 | 23103845 | COIL, TEM2030AY |
| L516 | 23103845 | COIL, TEM2030AY |
| L605 | 23248288 | COIL, CHOKE, TLN3299GH |
| L671 | 23103887 | INDUCTOR, CHIP BEAD, TEM2130AM |
| L672 | 23103887 | INDUCTOR, CHIP BEAD, TEM2130AM |
| L673 | 23103887 | INDUCTOR, CHIP BEAD, TEM2130AM |
| L674 | 23103887 | INDUCTOR, CHIP BEAD, TEM2130AM |
| L701 | 23289840 | COIL, PEAKING, TRF4100AT |
| L702 | 23261974 | COIL, FERRITE BEAD, HC5-035 |
| L704 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L705 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L801 | 23217681 | TRANSFORMER, CHOKE 40MH1.5A TPW2063AL |
| L805 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L811 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L824 | 23248289 | COIL, CHOKE, TLN3312GH |
| L876 | 23289840 | COIL, PEAKING, TRF4100AT |
| L883 | 23221111 | COIL, CHOKE, TRF9253GH |
| L885 | 23248288 | COIL, CHOKE, TLN3299GH |
| L886 | 23103248 | FERRITE CHOKE, TEM2014AA |
| L889 | 23248289 | COIL, CHOKE, TLN3312GH |
| L891 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |

| Location No. | Parts No. | Description |
|---|---|---|
| L892 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| L893 | 23248289 | COIL, CHOKE, TLN3312GH |
| L894 | 23289840 | COIL, PEAKING, TRF4100AT |
| L895 | 23248289 | COIL, CHOKE, TLN3312GH |
| L897 | 23248289 | COIL, CHOKE, TLN3312GH |
| ⚠ L901 #1 | 23200648 | COIL, DG0.32CU 83T-2LOOP(PARA) TSB-2427AL |
| ⚠ #2 | 23200650 | COIL, DG0.40CU115T-2LOOP(PARA) TSB-2428AL |
| L902 | 23238508 | COIL, PEAKING, TRF4121AJ |
| L903 | 23238703 | COIL, PEAKING, TRF4820AJ |
| L904 | 23238703 | COIL, PEAKING, TRF4820AJ |
| L905 | 23289841 | COIL, PEAKING, TRF4150AT |
| L906 | 23289841 | COIL, PEAKING, TRF4150AT |
| L907 | 23289841 | COIL, PEAKING, TRF4150AT |
| L908 | 23289840 | COIL, PEAKING, TRF4100AT |
| L911 | 23289846 | COIL, PEAKING, TRF4101AT |
| L4000 | 23289918 | COIL, PEAKING, TRF4100AU |
| L4401 | 23289101 | COIL, PEAKING, TRF4101AF |
| LA01 | 23289840 | COIL, PEAKING, TRF4100AT |
| LC01 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC02 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC03 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC04 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC05 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC06 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC07 | 23238562 | COIL, PEAKING, TRF4109AJ |
| LC08 | 23238562 | COIL, PEAKING, TRF4109AJ |
| LC09 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC10 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC13 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC14 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC15 | 23103825 | INDUCTOR, BEAD, TEM2118M |
| LC16 | 23103825 | INDUCTOR, BEAD, TEM2118M |
| LC17 | 23103825 | INDUCTOR, BEAD, TEM2118M |
| LC18 | 23103825 | INDUCTOR, BEAD, TEM2118M |
| LC43 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LC45 | 23238562 | COIL, PEAKING, TRF4109AJ |
| LC183 | 23289109 | COIL, PEAKING, TRF41R0AF |
| LD181 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LD182 | 23289470 | COIL, PEAKING, TRF4470AF |
| LD184 | 23103845 | COIL, TEM2030AY |
| LG102 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LG103 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LJ901 #2 | 23200547 | COIL, CORRECT COIL,0.4CU-60T TSB-2418AH |
| LR01 | 23289109 | COIL, PEAKING, TRF41R0AF |
| LR02 | 23289109 | COIL, PEAKING, TRF41R0AF |
| LT01 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT02 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT03 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT04 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT05 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT07 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT08 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT09 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT11 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LT12 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| LV09 | 23289840 | COIL, PEAKING, TRF4100AT |
| LV10 | 23289840 | COIL, PEAKING, TRF4100AT |
| LV42 | 23289840 | COIL, PEAKING, TRF4100AT |
| LV43 | 23289840 | COIL, PEAKING, TRF4100AT |
| LV44 | 23289840 | COIL, PEAKING, TRF4100AT |
| LV49 | 23103852 | COIL, FILTER, TEM2028AH |
| LZ01 | 23289840 | COIL, PEAKING, TRF4100AT |
| LZ02 | 23289840 | COIL, PEAKING, TRF4100AT |
| LZ03 | 23289840 | COIL, PEAKING, TRF4100AT |
| LZ04 | 23103827 | INDUCTOR, BEAD, TEM2120M |
| LZ05 | 23103827 | INDUCTOR, BEAD, TEM2120M |
| ⚠ T400 | 23224386 | TRANSFORMER, FOCUS, TLN2220AH |
| T401 | 23224384 | TRANSFORMER, DRIVE, TLN1080AL |
| ⚠ T461 #1 | 23236852 | TRANSFORMER, FLY-BACK TFB4188BS |
| ⚠ #2 | 23236841 | TRANSFORMER, FLY-BACK TFB4218AD |
| T461A #1 | 23192964 | ANODE CAP ASSY, TCC5606CT |
| #2 | 23192957 | ANODE CAP ASSY, TCC5602AT |
| T461B | 23509162 | CABLE ASSY, CABLE FOCUS |
| T461C | 23509372 | CABLE ASSY, SCREEN |
| T461D | 23509161 | CABLE ASSY, CABLE FOCUS |
| T801 | 23211779 | COIL, LINE FILTER 37X44H 16MH TRF3231AR |

| Location No. | Parts No. | Description |
|---|---|---|
| T802 | 23211779 | COIL, LINE FILTER 37X44H 16MH TRF3231AR |
| T840 | 23217616 | TRANSFORMER, POWER EI28 7V195V TPW1575AT |
| ⚠ T862 | 23217562 | TRANSFORMER, CONVERTER TPW3501AS |
| G401 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| G404 | 23103249 | CORE, FERRITE BEAD 3.5X4.5, TEM2011AO |
| G828 | 23103145 | FERRITE CHOKE, TEM2011AA |
| GA02 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| GA10 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| GA37 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| GA38 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| GA39 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| GA40 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| GA41 | 23103828 | INDUCTOR, BEAD, TEM2121M |
| ZD02 | 23103154 | FERRITE CORE, 24X36X13 |
| **SEMICONDUCTORS** | | |
| Q200 | 23114756 | TRANSISTOR, 2SC2482 |
| Q201 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q274 | 23205006 | TRANSISTOR, KTC4075Y |
| Q301 | 23319787 | IC, LA7833S |
| Q302 | 23000711 | IC, TA1317AN |
| Q303 | 23205081 | TRANSISTOR, 2SA1980-Y |
| Q340 | 70114396 | TRANSISTOR, 2SC3326B |
| Q341 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q370 | 23114462 | TRANSISTOR, RN1202 |
| Q371 | 23114462 | TRANSISTOR, RN1202 |
| Q402 | 23114577 | TRANSISTOR, 2SC22350 (FA-1 |
| Q404 | 23205149 | TRANSISTOR, 2SC5859(FA) |
| Q418 | 23205160 | TRANSISTOR, NPN VCBO=100V KTD2092 |
| Q420 | 23205160 | TRANSISTOR, NPN VCBO=100V KTD2092 |
| Q421 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q422 | 70114396 | TRANSISTOR, 2SC3326B |
| Q423 | 70114396 | TRANSISTOR, 2SC3326B |
| Q424 | 70114396 | TRANSISTOR, 2SC3326B |
| Q430 | 23205160 | TRANSISTOR, NPN VCBO=100V KTD2092 |
| Q451 | 70114396 | TRANSISTOR, 2SC3326B |
| Q460 | 23205031 | TRANSISTOR, FET, 2SK2920 |
| Q461 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q470 | 23114541 | TRANSISTOR, 2SA1320 @U903A |
| | 23205085 | TRANSISTOR, 2SC5343-YL @U904 |
| Q471 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q472 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q473 | 23205081 | TRANSISTOR, 2SA1980-Y |
| Q499 | 23205081 | TRANSISTOR, 2SA1980-Y |
| Q501 | 23009178 | IC, TB1274AF(J,FP) |
| Q504 | 23205005 | TRANSISTOR, KTA2014Y |
| Q505 | 23205005 | TRANSISTOR, KTA2014Y |
| Q506 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q507 | 23114501 | TRANSISTOR, RN1402 |
| Q510 | 23009369 | IC, TA1360AFG |
| Q608 | 23314994 | TRANSISTOR, 2SA1576A106 |
| Q612 | 23314994 | TRANSISTOR, 2SA1576A106 |
| Q617 | 23906596 | IC, BA4558 |
| Q620 | 23906596 | IC, BA4558 |
| Q627 | 23114493 | TRANSISTOR, RN2404 |
| Q639 | 70114396 | TRANSISTOR, 2SC3326B |
| Q640 | 23906523 | IC, TA8256BH |
| Q641 | 70114396 | TRANSISTOR, 2SC3326B |
| Q642 | 70114396 | TRANSISTOR, 2SC3326B |
| Q670 | 23906523 | IC, TA8256BH |
| Q671 | 70114396 | TRANSISTOR, 2SC3326B |
| Q672 | 70114396 | TRANSISTOR, 2SC3326B |
| Q673 | 70114396 | TRANSISTOR, 2SC3326B |
| Q688 | 23114499 | TRANSISTOR, RN1404 |
| Q705 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q706 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q707 | 23114437 | TRANSISTOR, 2SC752GTM-Y |
| Q709 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q710 | 23205081 | TRANSISTOR, 2SA1980-Y |
| Q711 | 23205269 | TRANSISTOR, VCBO-160V IC-1.5A 2SA2005 |
| Q712 | 23205270 | TRANSISTOR, VCBO 160V 1.5A 2SC5511 |
| Q719 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q801 | 23135037 | IC, STR-F6268S |
| Q805 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q807 | 23205085 | TRANSISTOR, 2SC5343-YL |
| ⚠ Q826 | 23009270 | IC, PHOTO COUPLER, PS2581L1(D) |

| Location No. | Parts No. | Description |
|---|---|---|
| Q827 | 23000352 | IC, SE125N, LF4 |
| Q830 | 23314141 | TRANSISTOR, 2SC3852 |
| Q831 | 23314141 | TRANSISTOR, 2SC3852 |
| Q832 | 23905977 | IC, PQ09RD11 |
| Q833 | 23314141 | TRANSISTOR, 2SC3852 |
| Q840 | 23314141 | TRANSISTOR, 2SC3852 |
| Q901 | 23314780 | TRANSISTOR, 2SC4544 |
| Q902 | 23314965 | TRANSISTOR, KTC3198 Y |
| Q903 | 23314780 | TRANSISTOR, 2SC4544 |
| Q904 | 23314965 | TRANSISTOR, KTC3198 Y |
| Q905 | 23314780 | TRANSISTOR, 2SC4544 |
| Q906 | 23314965 | TRANSISTOR, KTC3198 Y |
| Q907 | 23114422 | TRANSISTOR, 2SA562TM-Y |
| Q908 | 23114429 | TRANSISTOR, 2SC2120-Y |
| Q910 | 23205085 | TRANSISTOR, 2SC5343-YL |
| Q2104 | 23205081 | TRANSISTOR, 2SA1980-Y |
| Q2105 | 23205081 | TRANSISTOR, 2SA1980-Y |
| Q2106 | 23205081 | TRANSISTOR, 2SA1980-Y |
| Q2107 | 23205005 | TRANSISTOR, KTA2014Y |
| Q2108 | 23205005 | TRANSISTOR, KTA2014Y |
| Q2109 | 23205005 | TRANSISTOR, KTA2014Y |
| Q4200 | 23000370 | IC, TA1318N |
| Q4465 | 23205005 | TRANSISTOR, KTA2014Y |
| Q4490 | 23118952 | IC, PHOTO COUPLER, TLP521-1 (FA) |
| Q4491 | 23314917 | TRANSISTOR, 2SK2003-01MR |
| Q4493 | 23205085 | TRANSISTOR, 2SC5343-YL |
| QA01 | 23009443 | IC, 8BIT MCU 120K 64PIN CXP750010-308S |
| QA02 | 23009649 | IC, AT24C64A-10PI |
| QA05 | 23906367 | IC, PST9146NL |
| QA13 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QA14 #2 | 23205081 | TRANSISTOR, 2SA1980-Y |
| QA61 | 23009332 | IC, AT24C256-2.7 |
| QB03 | 23205081 | TRANSISTOR, 2SA1980-Y |
| QB04 | 23205005 | TRANSISTOR, KTA2014Y |
| QB05 | 23205006 | TRANSISTOR, KTC4075Y |
| QB06 | 23205005 | TRANSISTOR, KTA2014Y |
| QB07 | 23205005 | TRANSISTOR, KTA2014Y |
| QB42 | 23205005 | TRANSISTOR, KTA2014Y |
| QB43 | 23205006 | TRANSISTOR, KTC4075Y |
| QB81 | 70114396 | TRANSISTOR, 2SC3326B |
| QB82 | 70114396 | TRANSISTOR, 2SC3326B |
| QB83 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QB92 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QB93 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QB94 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QB95 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QB96 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QD181 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QD183 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QJ02 #2 | 23314965 | TRANSISTOR, KTC3198 Y |
| QJ03 #2 | 23314912 | TRANSISTOR, 2SC4793 |
| QJ04 #2 | 23205085 | TRANSISTOR, 2SC5343-YL |
| QR01 | 23009037 | IC, MB90096P-G-23 |
| QR11 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QS01 | 70114396 | TRANSISTOR, 2SC3326B |
| QS02 | 70114396 | TRANSISTOR, 2SC3326B |
| QS03 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QS04 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QS05 | 70114396 | TRANSISTOR, 2SC3326B |
| QS06 | 70114396 | TRANSISTOR, 2SC3326B |
| QS07 | 70114396 | TRANSISTOR, 2SC3326B |
| QS08 | 70114396 | TRANSISTOR, 2SC3326B |
| QS09 | 23114493 | TRANSISTOR, RN2404 |
| QS10 | 23114493 | TRANSISTOR, RN2404 |
| QS13 | 70114396 | TRANSISTOR, 2SC3326B |
| QS14 | 70114396 | TRANSISTOR, 2SC3326B |
| QT01 | 23009169 | IC, SAA5665HL/M1/0606 |
| QT02 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QT03 | 70114402 | TRANSISTOR, 2SC3437-Y |
| QT05 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QT06 | 23000283 | IC, R1121N |
| QT07 | 23009815 | IC, CY7C1019CV33-12ZCT |
| QT08 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QT10 | 23314993 | TRANSISTOR, 2SC4081 Q |
| QT11 | 23009114 | IC, BD4746G |
| QT12 | 23314994 | TRANSISTOR, 2SA1576A106 |

| Location No. | Parts No. | Description |
|---|---|---|
| QT13 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QT14 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QT15 | 23314994 | TRANSISTOR, 2SA1576A106 |
| QV01 | 23906887 | IC, CXA2069Q |
| QV02 | 23205006 | TRANSISTOR, KTC4075Y |
| QV03 | 23205006 | TRANSISTOR, KTC4075Y |
| QV04 | 23205006 | TRANSISTOR, KTC4075Y |
| QV06 | 23205005 | TRANSISTOR, KTA2014Y |
| QV07 | 23205006 | TRANSISTOR, KTC4075Y |
| QV08 | 23205005 | TRANSISTOR, KTA2014Y |
| QV09 | 23205085 | TRANSISTOR, 2SC5343-YL |
| QV12 | 23205085 | TRANSISTOR, 2SC5343-YL |
| QV14 | 23205085 | TRANSISTOR, 2SC5343-YL |
| QV15 | 23205006 | TRANSISTOR, KTC4075Y |
| QV16 | 70128711 | IC, BA7603F |
| QV17 | 23318981 | IC, MC14053BF |
| QX01 | 70114396 | TRANSISTOR, 2SC3326B |
| QZ01 | 23009303 | IC, CMOS MULTI COMB SOP16 TDA9181T/N1,118 |
| QZ02 | 23205006 | TRANSISTOR, KTC4075Y |
| QZ03 | 23205005 | TRANSISTOR, KTA2014Y |
| QZ04 | 23205005 | TRANSISTOR, KTA2014Y |
| QZ05 | 23205005 | TRANSISTOR, KTA2014Y |
| QZ06 | 23205005 | TRANSISTOR, KTA2014Y |
| QZ07 | 23205006 | TRANSISTOR, KTC4075Y |
| QZ09 | 23205006 | TRANSISTOR, KTC4075Y |
| QZ10 | 23205005 | TRANSISTOR, KTA2014Y |
| QZ11 | 23205006 | TRANSISTOR, KTC4075Y |
| QZ12 | 23205005 | TRANSISTOR, KTA2014Y |
| D101 | 23118607 | DIODE, ZENER, RD33ESA B3 |
| D240 | 23118859 | DIODE, 1SS133 |
| D301 | 23357366 | DIODE, FR105-B5 |
| D302 | 23118094 | DIODE, EU2A |
| D303 | 23316794 | DIODE, SC570A |
| D304 | 23118094 | DIODE, EU2A |
| D313 | 23118859 | DIODE, 1SS133 |
| D320 | 23118859 | DIODE, 1SS133 |
| D327 | 23118513 | DIODE, ZENER, RD11ESA B3 |
| D336 | 23118529 | DIODE, ZENER, RD5.6ES B2 |
| D337 | 23118529 | DIODE, ZENER, RD5.6ES B2 |
| D370 | 23357366 | DIODE, FR105-B5 |
| D371 | 23357366 | DIODE, FR105-B5 |
| D373 | 23118519 | DIODE, ZENER, RD8.2ES |
| D374 | 23118859 | DIODE, 1SS133 |
| D399 | 23118608 | DIODE, ZENER, RD33ES B2 |
| D404 | 23224366 | DIODE, FMQ-3GU |
| D406 | 23357366 | DIODE, FR105-B5 |
| D415 | 23118094 | DIODE, EU2A |
| D418 | 23118613 | DIODE, ZENER, RD30ESA B1 |
| D419 | 23118621 | DIODE, ZENER, RD10ESA B3 |
| D420 | 23118522 | DIODE, ZENER, RD7.5ES-B3 |
| D421 | 23118524 | DIODE, ZENER, RD7.5ES B1 |
| D422 | 23118504 | DIODE, ZENER, RD15ES B3 |
| D431 | 23118532 | DIODE, ZENER, RD5.1ESA B2 |
| D432 | 23118531 | DIODE, ZENER, RD5.1ESA B3 |
| D436 | 23118859 | DIODE, 1SS133 |
| D441 | 23118517 | DIODE, ZENER, RD9.1ES |
| D442 | 23118094 | DIODE, EU2A |
| D462 | 23118505 | DIODE, ZENER, RD15ESA B2 |
| D467 | 23118094 | DIODE, EU2A |
| D470 | 23118531 | DIODE, ZENER, RD5.1ESA B3 |
| D474 | 23118511 | DIODE, ZENER, RD12ES B2 |
| D498 | 23357282 | DIODE, DZ9.1 BS B |
| D499 | 23118859 | DIODE, 1SS133 |
| D502 | 23118041 | DIODE, MA111 |
| D506 | 23316673 | DIODE, ZENER, MTZJ5.6C |
| D520 | 23118641 | DIODE, ZENER, RD2.0ESA B2 |
| D611 | 23118041 | DIODE, MA111 |
| D612 | 23118041 | DIODE, MA111 |
| D613 | 23118041 | DIODE, MA111 |
| D614 | 23118041 | DIODE, MA111 |
| D624 | 23118041 | DIODE, MA111 |
| D625 | 23118041 | DIODE, MA111 |
| D626 | 23118041 | DIODE, MA111 |
| D627 | 23118041 | DIODE, MA111 |
| D628 | 23118041 | DIODE, MA111 |
| D629 | 23118269 | DIODE, ZENER, RD22MB2 |

| Location No. | Parts No. | Description |
|---|---|---|
| D630 | 23118041 | DIODE, MA111 |
| D640 | 23118041 | DIODE, MA111 |
| D641 | 23118041 | DIODE, MA111 |
| D642 | 23118041 | DIODE, MA111 |
| D643 | 23118041 | DIODE, MA111 |
| D647 | 23118041 | DIODE, MA111 |
| D648 | 23118041 | DIODE, MA111 |
| D670 | 23118041 | DIODE, MA111 |
| D671 | 23118041 | DIODE, MA111 |
| D672 | 23118041 | DIODE, MA111 |
| D673 | 23118041 | DIODE, MA111 |
| D674 | 23118041 | DIODE, MA111 |
| D675 | 23118041 | DIODE, MA111 |
| D683 | 23118041 | DIODE, MA111 |
| D704 | 23118859 | DIODE, 1SS133 |
| D705 | 23118859 | DIODE, 1SS133 |
| D715 | 23118859 | DIODE, 1SS133 |
| D721 | 23118859 | DIODE, 1SS133 |
| D801 | 23357041 | DIODE, LN6SB60-F05 |
| D805 | 23357012 | DIODE, 1SS244 |
| D806 | 23357366 | DIODE, FR105-B5 |
| D807 | 23357012 | DIODE, 1SS244 |
| D808 | 23118859 | DIODE, 1SS133 |
| D817 | 23118608 | DIODE, ZENER, RD33ES B2 |
| D836 | 23118528 | DIODE, ZENER, RD5.6ESA B3 |
| D840 | 23316711 | DIODE, S1WBA60 |
| D841 | 23118528 | DIODE, ZENER, RD5.6ESA B3 |
| D842 | 23118506 | DIODE, ZENER, RD15ES B1 |
| D844 | 23118518 | DIODE, ZENER, RD9.1ES |
| D845 | 23118859 | DIODE, 1SS133 |
| D855 | 23118859 | DIODE, 1SS133 |
| D871 | 23357366 | DIODE, FR105-B5 |
| D883 | 23118338 | DIODE, RU4AM LF-K2 |
| D885 | 23316184 | DIODE, FML-G12S |
| D891 | 23316463 | DIODE, RK46 |
| D892 | 23118052 | DIODE, RU4Z LF-L1 |
| D893 | 23118528 | DIODE, ZENER, RD5.6ESA B3 |
| D894 | 23118528 | DIODE, ZENER, RD5.6ESA B3 |
| D901 | 23118859 | DIODE, 1SS133 |
| D904 | 23118859 | DIODE, 1SS133 |
| D905 | 23118859 | DIODE, 1SS133 |
| D906 | 23118859 | DIODE, 1SS133 |
| D907 | 23118859 | DIODE, 1SS133 |
| D908 | 23118859 | DIODE, 1SS133 |
| D909 | 23118859 | DIODE, 1SS133 |
| D911 | 23357366 | DIODE, FR105-B5 |
| D4410 | 23118859 | DIODE, 1SS133 |
| D4411 | 23118859 | DIODE, 1SS133 |
| D4412 | 23118859 | DIODE, 1SS133 |
| D4699 | 23357366 | DIODE, FR105-B5 |
| DA42 | 23316673 | DIODE, ZENER, MTZJ5.6C |
| DB02 | 23358564 | DIODE, LED, SLR-56VC3FPQ |
| DB03 | 23358563 | DIODE, LED, SLR-56MC3FPQR |
| DD181 | 23357037 | DIODE, ZENER, UDZS5.6B |
| DJ01 #2 | 23118859 | DIODE, 1SS133 |
| DJ02 #2 | 23118504 | DIODE, ZENER, RD15ES B3 |
| DR01 | 23357447 | DIODE, SWITCH SILICON KDS160-RTK/USC |
| DR02 | 23357447 | DIODE, SWITCH SILICON KDS160-RTK/USC |
| DR03 | 23357447 | DIODE, SWITCH SILICON KDS160-RTK/USC |
| DR12 | 23357172 | DIODE, ZENER, UDZS10B |
| DR13 | 23357172 | DIODE, ZENER, UDZS10B |
| DR14 | 23357172 | DIODE, ZENER, UDZS10B |
| DR70 | 23357037 | DIODE, ZENER, UDZS5.6B |
| DR71 | 23357037 | DIODE, ZENER, UDZS5.6B |
| DS09 | 23118041 | DIODE, MA111 |
| DS11 | 23118041 | DIODE, MA111 |
| DS12 | 23118041 | DIODE, MA111 |
| DS13 | 23118041 | DIODE, MA111 |
| DS14 | 23118041 | DIODE, MA111 |
| DV16 | 23357037 | DIODE, ZENER, UDZS5.6B |
| DV17 | 23357037 | DIODE, ZENER, UDZS5.6B |
| DV18 | 23357037 | DIODE, ZENER, UDZS5.6B |
| DV19 | 23357037 | DIODE, ZENER, UDZS5.6B |
| DV20 | 23357037 | DIODE, ZENER, UDZS5.6B |
| DV21 | 23357037 | DIODE, ZENER, UDZS5.6B |
| G443 | 23118859 | DIODE, 1SS133 |

| Location No. | | Parts No. | Description |
|---|---|---|---|
| G684 | | 23118041 | DIODE, MA111 |
| KB01 | | 23000852 | IC, REMOTE PHOTO RECEIVER, PIC-37043TE2 |
| PD05 | | 23906206 | IC, TORX176 |
| **MISCELLANEOUS** | | | |
| A433 | #2 | 23037310 | SCREW, 3X10MM, TQPPING |
| BB15A | | 23902749 | CONNECTOR, SOCKET, B-B 6P |
| BB15B | | 23368517 | CONNECTOR, PLUG, B-B 6P |
| BB16A | | 23903022 | CONNECTOR, BASE B-B 8P 2.5 JST |
| BB21A | | 23713014 | CONNECTOR, BRIDGE PLUG 16P 1.5 |
| BB21B | | 23713013 | CONNECTOR, SOCKET, B-B 16P 1.5 |
| BB22A | | 23368517 | CONNECTOR, PLUG, B-B 6P |
| BB22B | | 23902749 | CONNECTOR, SOCKET, B-B 6P |
| BB23A | | 23713014 | CONNECTOR, BRIDGE PLUG 16P 1.5 |
| BB23B | | 23713013 | CONNECTOR, SOCKET, B-B 16P 1.5 |
| D885B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| ⚠ F470 | | 23144503 | FUSE, CARTRIDGE 5.2X20 250V 1.25A |
| F470A | | 23165433 | FUSE HOLDER, 5.2 SOC |
| ⚠ F801 | | 23144508 | FUSE, CARTRIDGE 5.2X20, 250V 4.0A |
| F801A | | 23165433 | FUSE HOLDER, 5.2 SOC |
| ⚠ F802 | | 23144506 | FUSE, CARTRIDGE 5.2X20, 50V 2.5A |
| F802A | | 23165433 | FUSE HOLDER, 5.2 SOC |
| ⚠ F889 | | 23144458 | FUSE, 5.0A 250V |
| F889A | | 23165433 | FUSE HOLDER, 5.2 SOC |
| H002 | | 23148732 | MODULE, NICAM/IGR A-PRO AC3 MPSA11A |
| HX01 | | 23148027 | SCAN CONVERTER MODULE, MDFS03 |
| P004 | | 23161702 | PUSH TERMINAL, 8P |
| P104 | | 23368577 | CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4 |
| P515A | | 23368581 | CONNECTOR, PLUG 7P, 2.5MM G JST-EH B7B-EH-F1-TV4 |
| P515B | | 23368581 | CONNECTOR, PLUG 7P, 2.5MM G JST-EH B7B-EH-F1-TV4 |
| P604A | | 23367068 | CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4 |
| P604B | | 23368587 | CONNECTOR, PLUG, 8P 2.5MM W EH-JST, S8B-EH |
| P605A | | 23368579 | CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4 |
| P605B | | 23368579 | CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4 |
| P660A | | 23368578 | CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4 |
| P661 | | 23363607 | JACK, HEAD PHONE, 3.5MM |
| ⚠ P801 | | 23372151 | POWER CORD, AC250V3A L/FUSE13A GB13F1 @E801B |
| ⚠ | | 23372052 | POWER CORD, 250V2.5A @E801C |
| P801A | | 23368013 | CONNECTOR, PLUG, 2P 11.88MM W VT-JST |
| P821A | | 23368013 | CONNECTOR, PLUG, 2P 11.88MM W VT-JST |
| P821B | | 23368013 | CONNECTOR, PLUG, 2P 11.88MM W VT-JST |
| P831A | | 23368013 | CONNECTOR, PLUG, 2P 11.88MM W VT-JST |
| P831B | | 23368013 | CONNECTOR, PLUG, 2P 11.88MM W VT-JST |
| P902A | | 23367068 | CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4 |
| P902B | | 23367068 | CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4 |
| P903A | | 23367069 | CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A |
| P903B | | 23367069 | CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A |
| PA01A | | 23368578 | CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4 |
| PA01B | | 23368578 | CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4 |
| PA02A | | 23367068 | CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4 |
| PA02B | | 23368587 | CONNECTOR, PLUG, 8P 2.5MM W EH-JST, S8B-EH |
| PB14 | | 23368579 | CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4 |
| PD02B | | 23368577 | CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4 |
| PD03B | | 23368577 | CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4 |
| PD04 | | 23364092 | PIN JACK, SW ORANGE PIN JACK |
| PF01 | | 23902655 | CONNECTOR, B-B 15P |
| PH02 | | 23365598 | CONNECTOR, 21 PIN, 2100RFT |
| PJ01A | #2 | 23368580 | CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4 |
| PJ01B | #2 | 23368580 | CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4 |
| PJ901 | #2 | 23368584 | CONNECTOR, PLUG, 3P2.5MM W EH-JST S3B-EH |
| PT01 | | 23367724 | CONNECTOR, PLUG B-B 15P |
| PV01 | | 23023065 | JACK, PIN JACK(1G,1BL,4R,3W) IJB99-TE |
| Q301B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q404B | | 23850638 | INSULATOR, TRANSISTOR, AC263 |
| Q418B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q420B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q430B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q640B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q670B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q711B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q712B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q830B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q831B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q832B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q833B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q840B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |

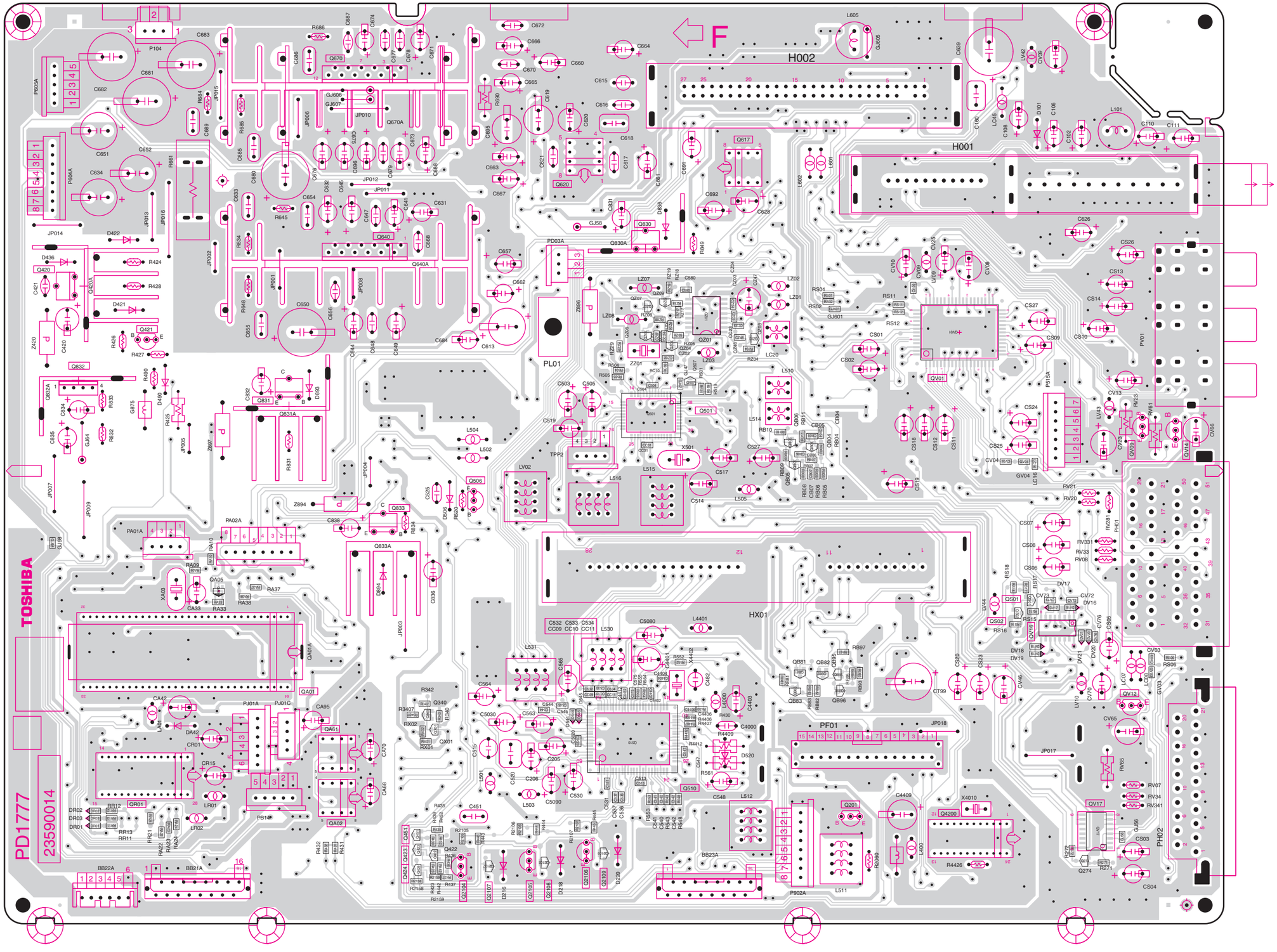
| Location No. | | Parts No. | Description |
|---|---|---|---|
| Q901B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q903B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| Q905B | | 70391355 | SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN |
| S601 | | 23344367 | SWITCH |
| ⚠ S801 | | 23344385 | SWITCH, POWER, PUSH 2C1P TV5, OMRON |
| SA01 | | 23344443 | SWITCH, TACTING SWITCH TSV TYP TSVB-1 |
| SA02 | | 23344443 | SWITCH, TACTING SWITCH TSV TYP TSVB-1 |
| SA03 | | 23344443 | SWITCH, TACTING SWITCH TSV TYP TSVB-1 |
| SA04 | | 23344443 | SWITCH, TACTING SWITCH TSV TYP TSVB-1 |
| SA05 | | 23344443 | SWITCH, TACTING SWITCH TSV TYP TSVB-1 |
| SJ01 | #2 | 23146958 | RELAY |
| SR82 | | 23146574 | RELAY, DLS5D1-O(M) 0.15W |
| ⚠ SR83 | | 23146570 | RELAY, DC12V, 2M OMR, G5PA-2 DC12 |
| ⚠ V901A | | 23903145 | SOCKET, CRT, WFOCUS ISD35SE INCHANG |
| W661 | #1 | 23351209 | SPEAKER, 55X150 8-OHM 10W SPK-1436AM |
| | #2 | 23351246 | SPEAKER, 55X150 8-OHM 10W BUSH SPK-1457AM |
| W662 | #1 | 23351209 | SPEAKER, 55X150 8-OHM 10W SPK-1436AM |
| | #2 | 23351246 | SPEAKER, 55X150 8-OHM 10W BUSH SPK-1457AM |
| W663 | | 23351194 | SPEAKER, SPK1392BO |
| X501 | | 23153438 | CRYSTAL, 16.200 25PPM 25OHM |
| X4010 | | 23153721 | CERAMIC RESONATOR, 503KHZ |
| X4402 | | 23153721 | CERAMIC RESONATOR, 503KHZ |
| XA03 | | 23153394 | CRYSTAL |
| XT01 | | 23153930 | CRYSTAL |
| Z404 | | 23144708 | FUSE, AXIAL 125V 1.0A |
| Z420 | | 23144710 | FUSE, AXIAL 125V 2.0A |
| Z871 | | 23144715 | FUSE, AXIAL 125V 5.0A |
| Z890 | | 23144715 | FUSE, AXIAL 125V 5.0A |
| Z891 | | 23144715 | FUSE, AXIAL 125V 5.0A |
| Z894 | | 23144710 | FUSE, AXIAL 125V 2.0A |
| Z896 | | 23144710 | FUSE, AXIAL 125V 2.0A |
| Z897 | | 23144710 | FUSE, AXIAL 125V 2.0A |
| **PC BOARD ASSEMBLIES** | | | |
| ✻ U104 | | 23762101 | PC BOARD ASSY, TEXT-P2 PU PD0267H |
| ✻ U901 | #1 | 23762092 | PC BOARD ASSY, CRT-D PWU PD1776 |
| ✻ | #2 | 23762104 | PC BOARD ASSY, CRT-D PWU PD1776A |
| ✻ U902 | #1 | 23762093 | PC BOARD ASSY, SIGNAL PWU PD1777 |
| ✻ | #2 | 23762105 | PC BOARD ASSY, SIGNAL PWU PD1777A |
| ✻ U903A | #1 | 23762095 | PC BOARD ASSY, POWER PWU PD1778-1 |
| ✻ | #2 | 23762107 | PC BOARD ASSY, POWER PWU PD1778A-1 |
| ✻ U903B | #1 | 23762096 | PC BOARD ASSY, INDICATOR PWU PD1778-2 |
| ✻ | #2 | 23762108 | PC BOARD ASSY, INDICATOR PWU PD1778A-2 |
| ✻ U903C | #1 | 23762097 | PC BOARD ASSY, CONTROL PWU PD1778-3 |
| ✻ | #2 | 23762109 | PC BOARD ASSY, CONTROL PWU PD1778A-3 |
| ✻ U904 | #1 | 23762094 | PC BOARD ASSY, DEF PWU PD1779 |
| ✻ | #2 | 23762106 | PC BOARD ASSY, DEF PWU PD1779A |
| ✻ U905 | | 23762102 | PC BOARD ASSY, BACK-T/D-IN PWU PD0549D |
| ✻ U906 | | 23762103 | PC BOARD ASSY, EXT-SP PU PD0206C |
| **PICTURE TUBE** | | | |
| ⚠ V901 | #1 | 23324107 | PICTURE TUBE, 30VPFW RACD-SUP W76LXK003X30 |
| | #2 | 23324108 | PICTURE TUBE, 34VPFW RACD-SUP W86LXK003X30 |
| **TUNER** | | | |
| H001 | | 23321398 | TUNER, TADF4-003A, EURO IF ALPS |
| **ACCESSORIES** | | | |
| A701 | | 23067793 | CARTON, CARTON BAZOOKA @A403 |
| | #1 | 23067114 | CARTON, CARTON @A007 |
| | #2 | 23067076 | CARTON, CARTON @A007 |
| A702 | #1 | 23946487 | PACKING, BOTTOM PACKING |
| | #2 | 23946474 | PACKING, BOTTOM PACKING |
| A703 | #1 | 23946488 | PACKING, TOP PACKING |
| | #2 | 23946475 | PACKING, TOP PACKING |
| A800 | | 23946781 | PACKING, PACKING TRAY |
| A801 | | 23946782 | PACKING, TP COVER |
| A804 | | 23067754 | CARTON, PACKING SHEET |
| K902 | | 23306435 | REMOCON HAND UNIT IR, CTVPAL CT-90101 @Y001B |
| | | 23306435 | REMOCON HAND UNIT IR, CTVPAL CT-90101 @Y001C |
| Y101A | | 23566376 | OWNERS MANUAL, ENGLISH |
| Y101E | | 23566377 | OWNERS MANUAL, EURO |
| **CABINET PARTS** | | | |
| A201S | #1 | 23532733 | COVER, FRONT COVER |
| | #2 | 23530749 | COVER, FRONT COVER FOR SERVICE |

| Location No. | | Parts No. | Description |
|---|---|---|---|
| A202 | #1 | 23532789 | COVER, BEZEL ASSEMBLY |
| | #2 | 23532792 | COVER, BEZEL ASSEMBLY |
| A231 | | 23445701 | BUTTON, BUTTON(POWER) |
| A241 | | 70368125 | PUSH CATCH |
| A242 | | 23428184 | DOOR, DOOR PROPER |
| ⚠ A401 | #1 | 23530806 | COVER, BACK COVER ASSEY |
| ⚠ | #2 | 23530753 | COVER, BACK COVER ASSEY |
| A403 | | 23150276 | SP BOX, WOOFER BOX ASSEY |
| A434 | | 23845856 | WIRE CLAMP, POF COAT) L=70MM |
| A810 | | 23936135 | TRAY, PALETT 130X777X1072 |
| E504 | #2 | 23198692 | WIRE, CRT EARTH 36ZP50 |

| Location No. | Parts No. | Description |
|---|---|---|

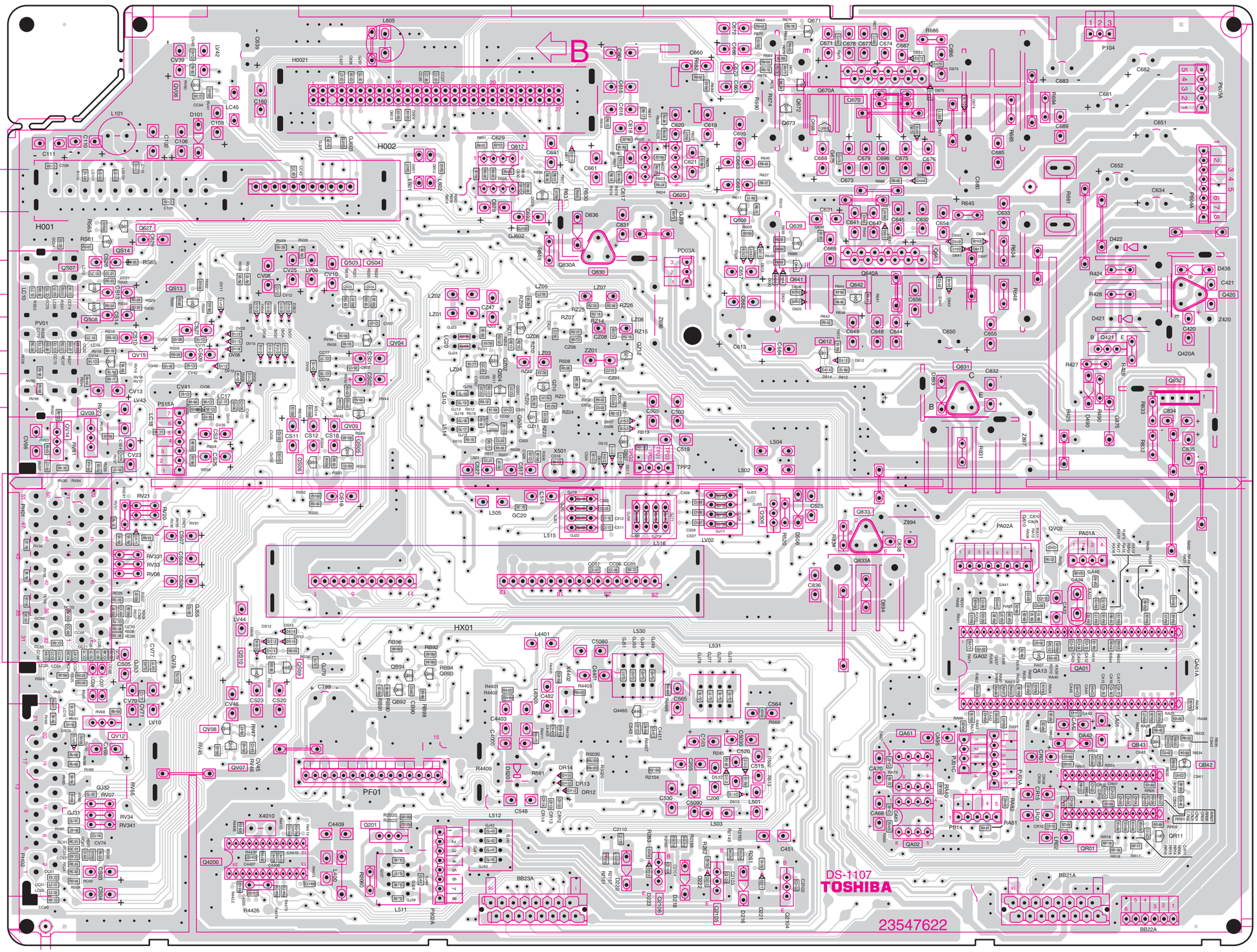
# SIGNAL BOARD PD1777 (32ZP48P) (U902)
# SIGNAL BOARD PD1777A (36ZP48P) (U902)

### TOP (COMPONENT) SIDE



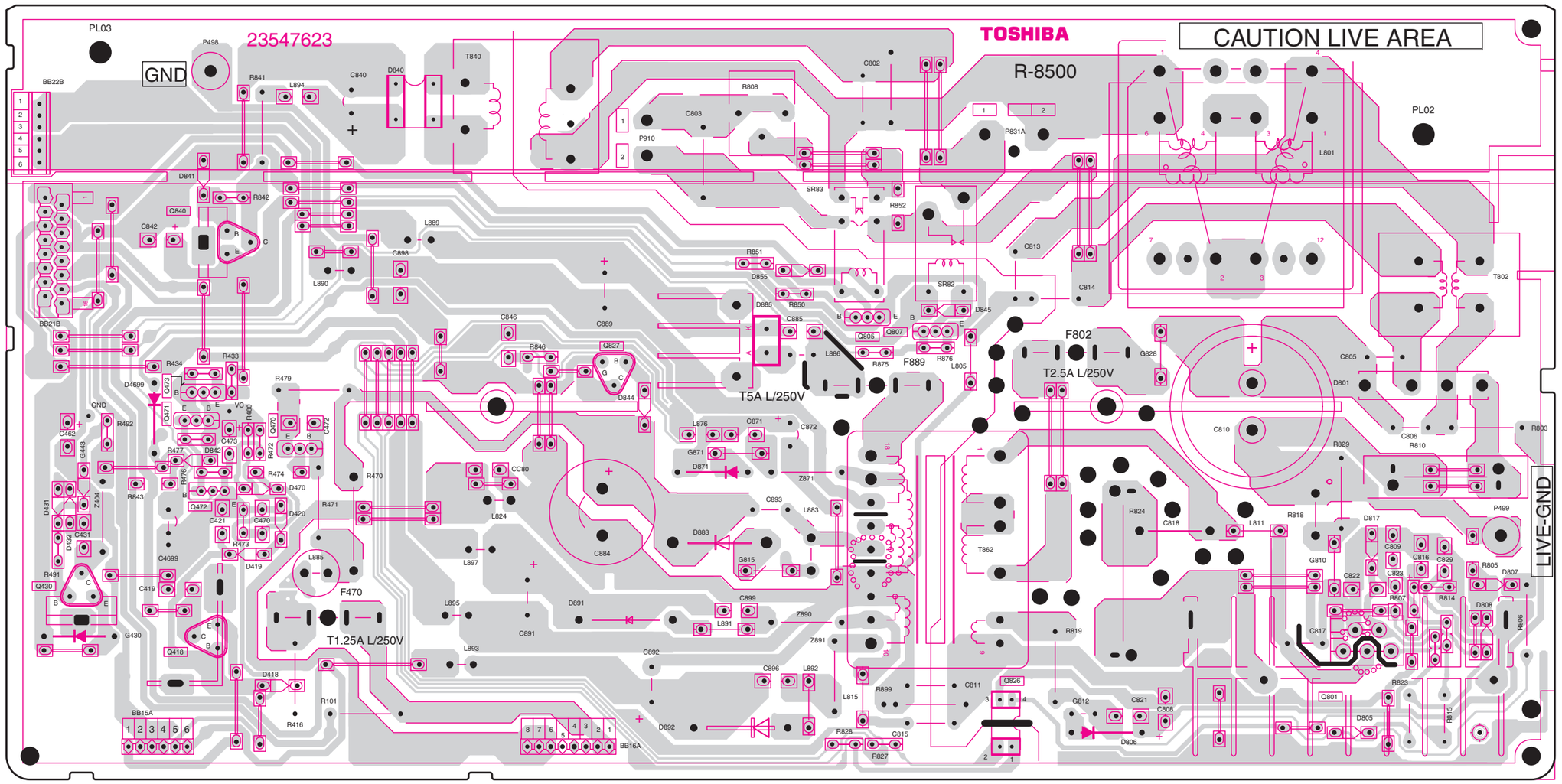
# SIGNAL BOARD PD1777 (32ZP48P) (U902)
# SIGNAL BOARD PD1777A (36ZP48P) (U902)

**BOTTOM (FOIL) SIDE**

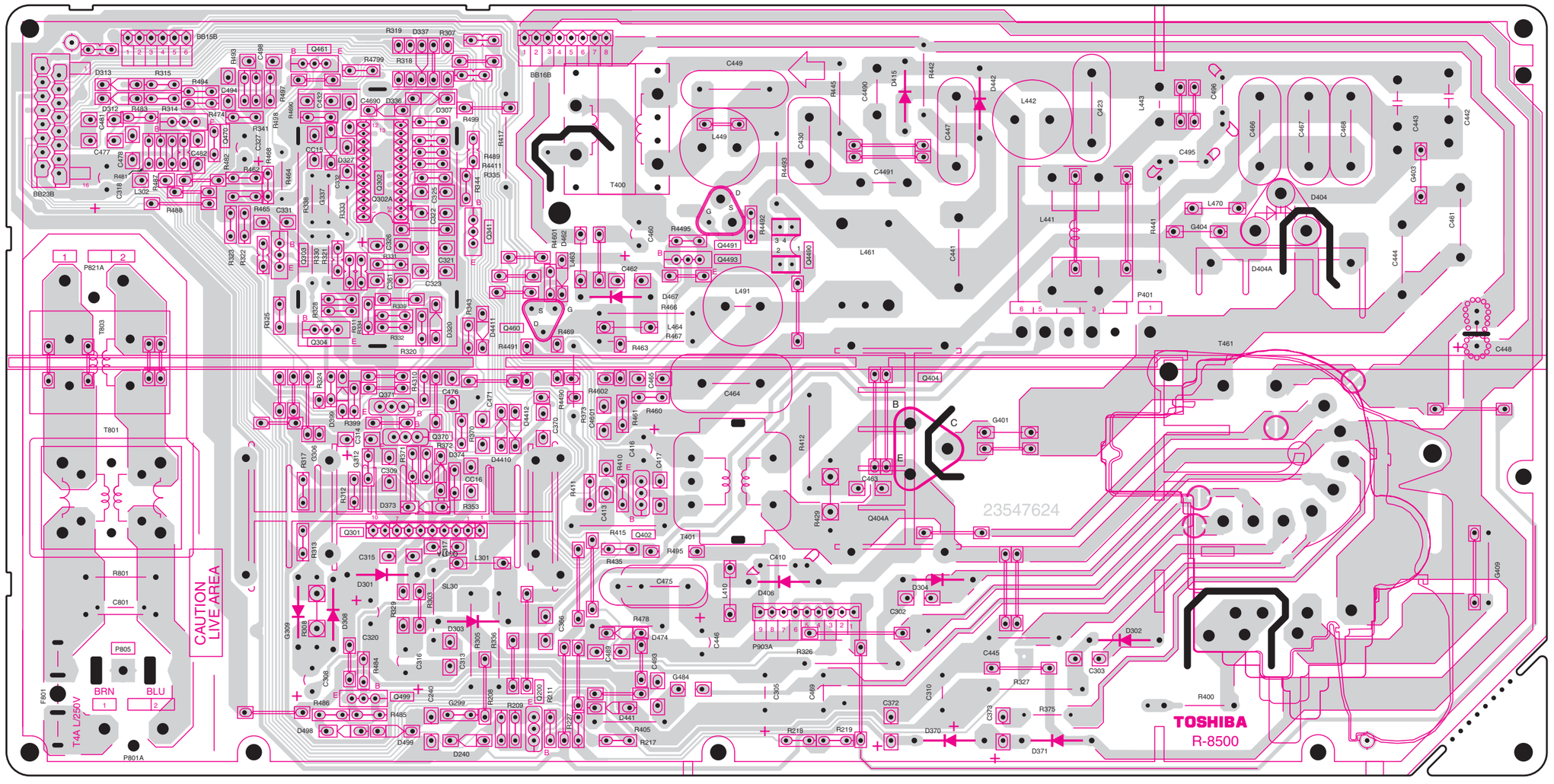


# POWER BOARD PD1778-1 (32ZP48P) (U903A)
# POWER BOARD PD1778A-1 (36ZP48P) (U903A)

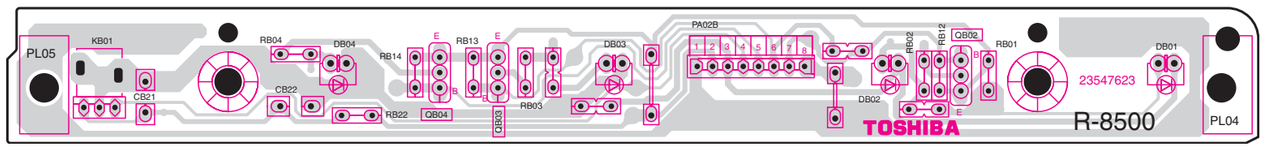
**BOTTOM (FOIL) SIDE**



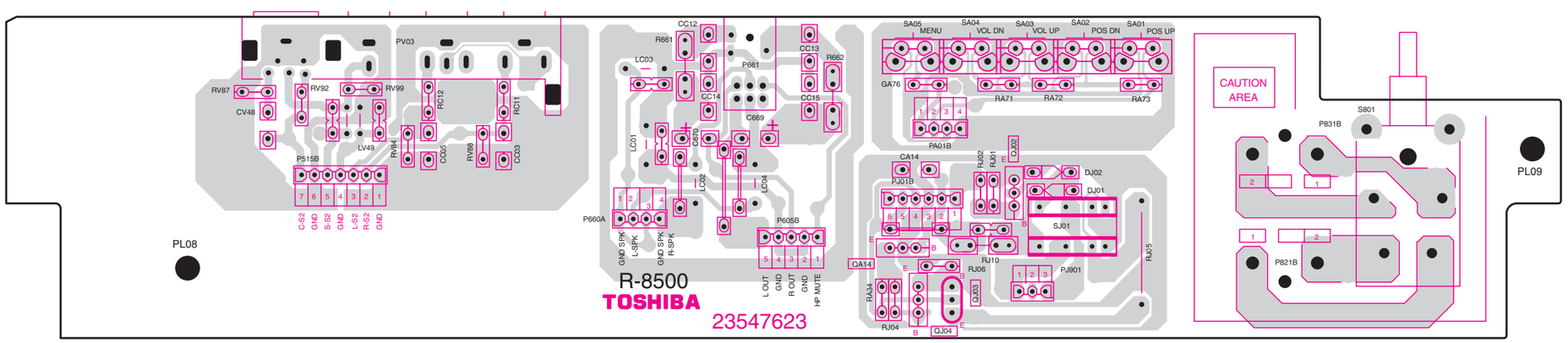
# DEF BOARD PD1779 (32ZP48P) (U904)
# DEF BOARD PD1779A (36ZP48P) (U904)
### BOTTOM (FOIL) SIDE



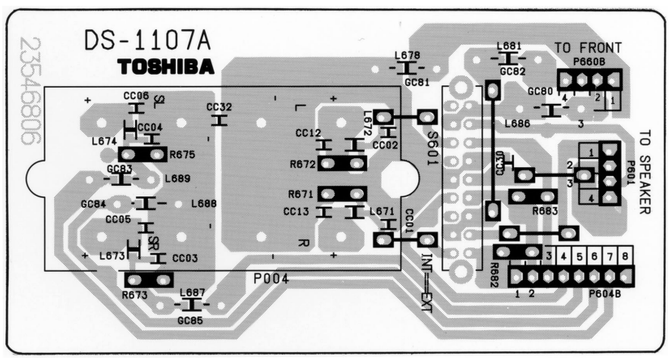
## INDICATOR BOARD PD1778-2 (32ZP48P) (U903B)
## INDICATOR BOARD PD1778A-2 (36ZP48P) (U903B)
**BOTTOM (FOIL) SIDE**



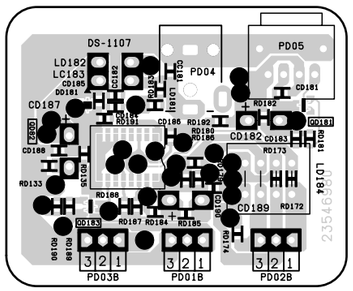

## CONTROL BOARD PD1778-3 (32ZP48P) (U903C)
## CONTROL BOARD PD1778A-3 (36ZP48P) (U903C)
**BOTTOM (FOIL) SIDE**



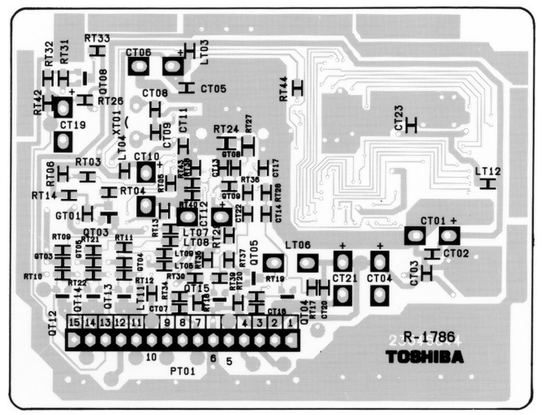

## EXT-SP BOARD PD206C (U906)
**BOTTOM (FOIL) SIDE**



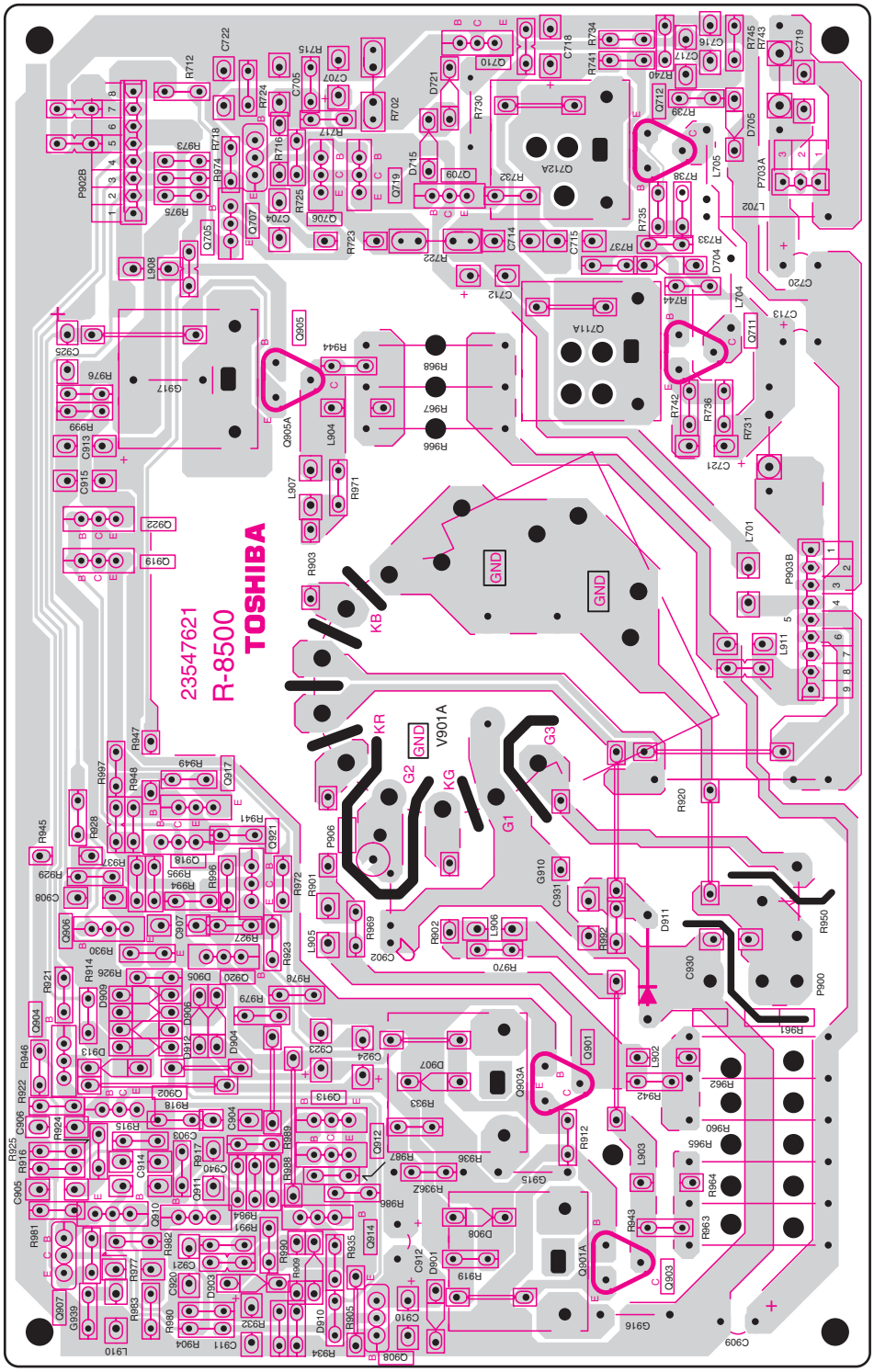

## BACK-T/D-IN BOARD PD0549D (U905)
**BOTTOM (FOIL) SIDE**




## TEXT-P2 BOARD PD0267H (U104)
**BOTTOM (FOIL) SIDE**

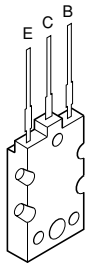


# CRT-D BOARD PD1776 (32ZP48P) (U901)
# CRT-D BOARD PD1776A (36ZP48P) (U901)
## BOTTOM (FOIL) SIDE

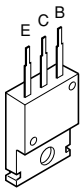


# TERMINAL VIEW OF TRANSISTORS

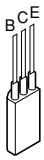
① 2SD2253
(old)
2SC5243
2SC5570



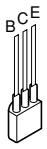

② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



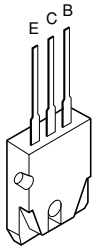

③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



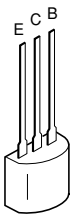

④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



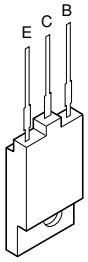

⑤ 2SA1788



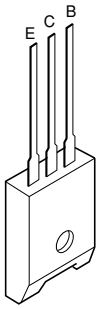

⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201




⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553




⑧ ON4409



# SCHEMATIC DIAGRAM

## MODEL : 32ZP48P/36ZP48P

**WARNING**: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

**CAUTION**: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

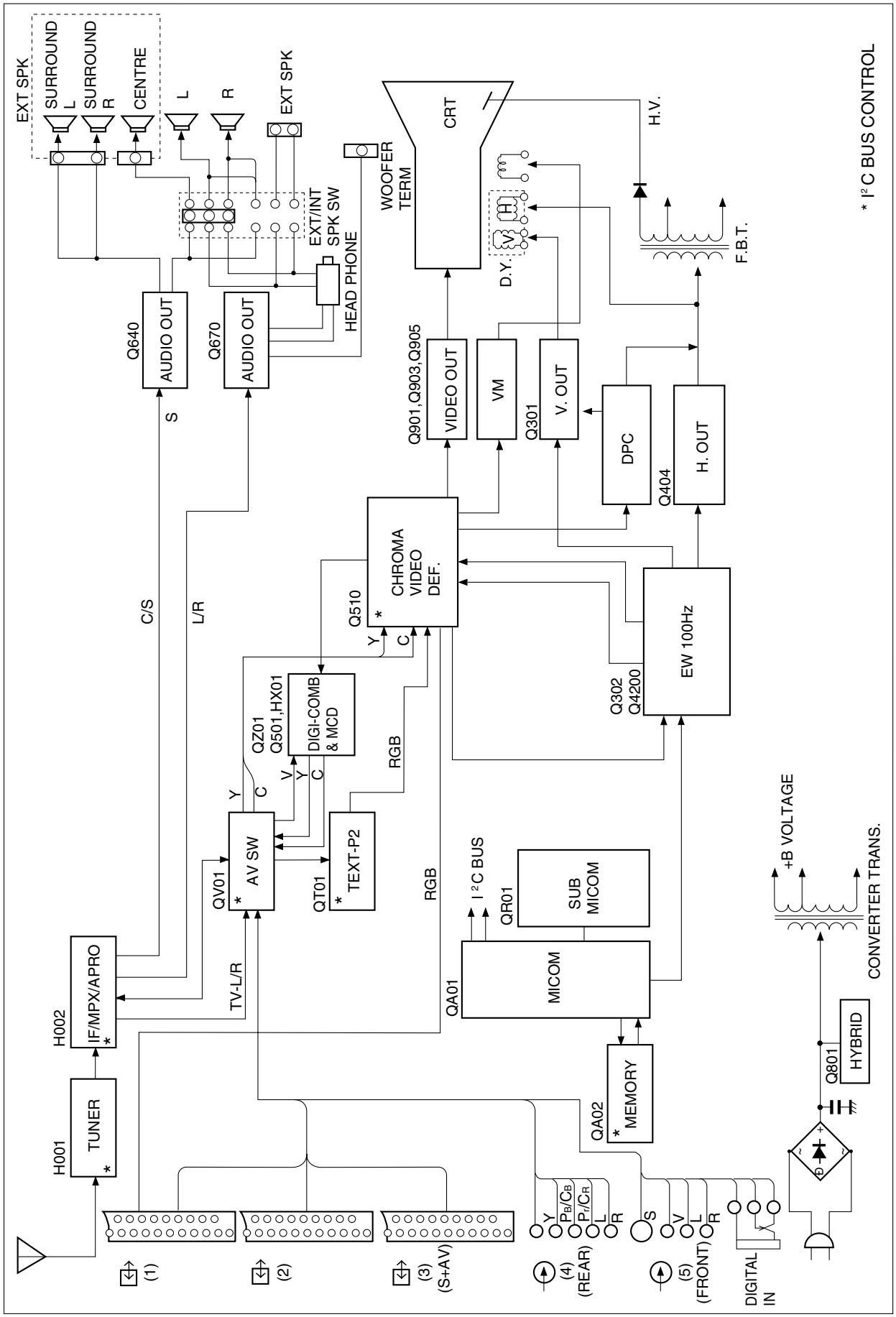
**NOTE:**

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
   1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt
   10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor  Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

### ■ SCHEMATIC DIAGRAM STRUCTURE:


- SIGNAL Circuit
  - CONNECTORS [ SHEET– 1/10 ] ..... 1/19
  - MICRO [ SHEET– 2/10 ] ..... 2/19
  - AV [ SHEET– 3/10 ] ..... 3/19
  - COMB & MCD [ SHEET– 4/10 ] ..... 4/19
  - BEP [ SHEET– 5/10 ] ..... 5/19
  - AUDIO [ SHEET– 6/10 ] ..... 6/19
  - IF [ SHEET– 7/10 ] ..... 7/19
  - LOW-B REGULATOR [ SHEET– 8/10 ] ..... 8/19
  - FREQ_DET [ SHEET– 9/10 ] ..... 9/19
  - TEXT [ SHEET– 10/10 ] ..... 10/19
- POWER_INDI_CONT Circuit
  - POWER [ SHEET– 1/3 ] ..... 11/19
  - INDICATOR [ SHEET– 2/3 ] ..... 12/19
  - CONTROL [ SHEET– 3/3 ] ..... 13/19
- DEF Circuit
  - HORIZONTAL-DEF [ SHEET– 1/2 ] ..... 14/19
  - VERTICAL-DEF [ SHEET– 1/2 ] ..... 15/19
- CRT Circuit ..... 16/19
- TEXT-P2 Circuit ..... 17/19
- DIGITAL-IN Circuit ..... 18/19
- EXT-SP Circuit ..... 19/19

# CIRCUIT BLOCK DIAGRAM



## SPECIFICATIONS

| MODEL | 32ZP48P | 36ZP48P |
|---|---|---|
| **Broadcast systems/channels** | PAL-I UHF UK21-UK69<br>PAL-B/G UHF E21-E69<br>VHF E2-E12, S1-S41<br>SECAM-L UHF F21-F69<br>VHF F1-F10, B-Q<br>SECAM-D/K UHF R21-R69<br>VHF R1-R12 | |
| **Video Input** | PAL, SECAM, NTSC 3.58/4.43 | |
| **External connections** | EXT1 Input 21-pin SCART RGB, A/V<br>EXT2 Input 21-pin SCART RGB, A/V<br>EXT3 Input/Output 21-pin SCART A/V, S-video, Selectable output<br>EXT4 Input Phono jacks Y, $P_B$ /$C_B$ , $P_R$ /$C_R$<br>Phono jacks Audio L + R<br>EXT5 Input (front) 4-pin S-video<br>Phono jacks Video<br>Digital Audio Input (Z48) DA-1 Optical<br>DA-2 Coaxial<br>Fixed Output Phono jacks Audio L + R<br>Surround Out Variable (Z48) Phono jacks Audio L + R | |
| **Programme Positions** | 100 | |
| **Stereo** | Nicam<br>2 carrier system | |
| **Visible Screen Size** (approx.) | 76cm | 86cm |
| **Display** | 16:9 aspect ratio | |
| **Sound output** (at 10% distortion) | Main 10W + 10W<br>Centre 10W<br>Woofer 13W<br>Surround 10W + 10W | |
| **Power consumption** as specified in EN60107-1 1997 | 145W | 155W |
| **Standby** | <2.5W | |
| **Dimensions** (approx.) | 55cm (H) x 76cm (W) x 56cm (D) | 63cm (H) x 86cm (W) x 60cm (D) |
| **Weight** (approx.) | 52kg | 72kg |
| **Headphone socket** | 3.5mm stereo | |

* Please refer to owner's manual in detail.

– END –

**TOSHIBA CORPORATION**
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

# SCHEMATIC DIAGRAM

## MODEL : 32ZP48P/36ZP48P

**WARNING**: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

**CAUTION**: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

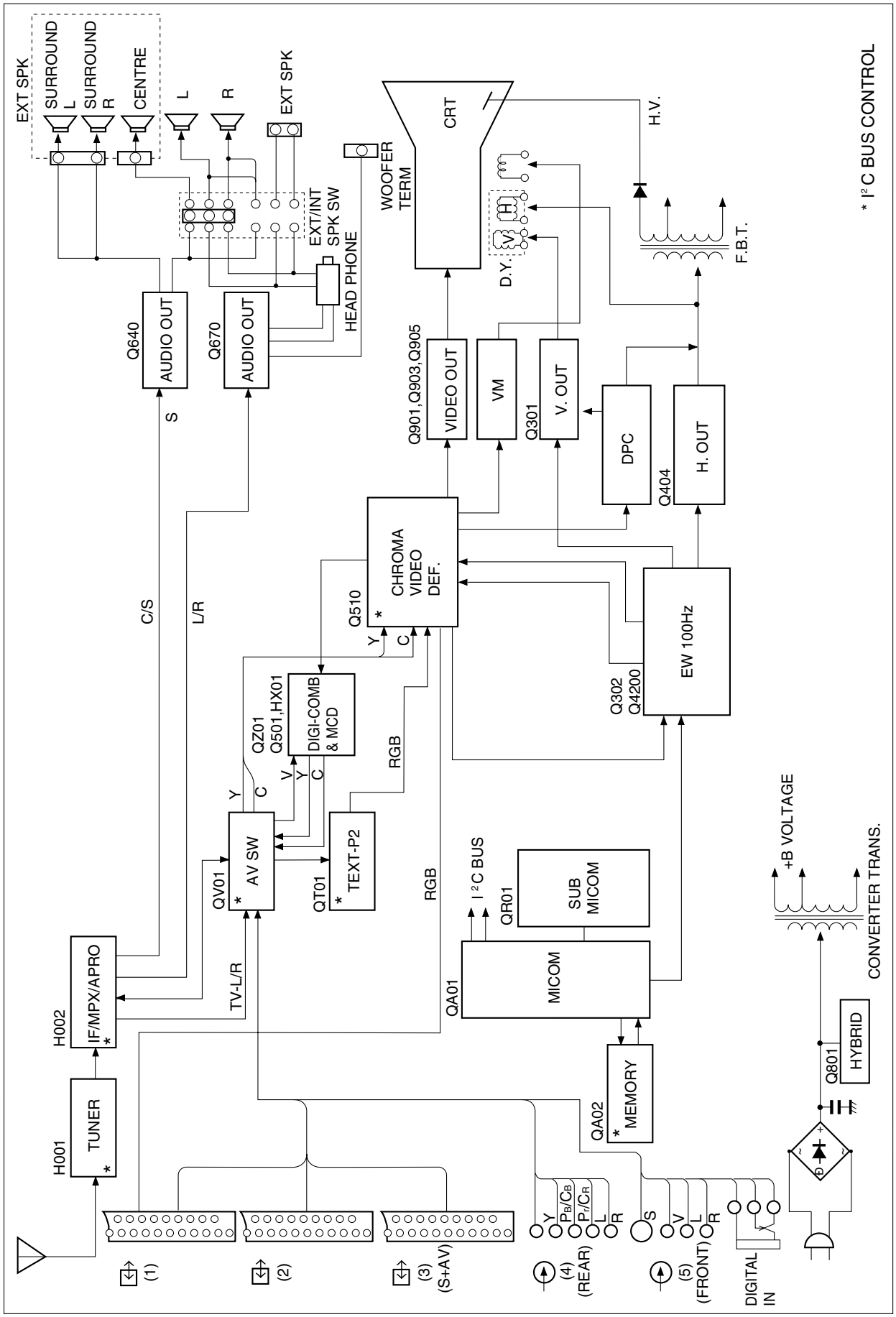
**NOTE:**

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
   1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt
   10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor  Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

### ■ SCHEMATIC DIAGRAM STRUCTURE:


- SIGNAL Circuit
  - CONNECTORS [ SHEET– 1/10 ] ..... 1/19
  - MICRO [ SHEET– 2/10 ] ..... 2/19
  - AV [ SHEET– 3/10 ] ..... 3/19
  - COMB & MCD [ SHEET– 4/10 ] ..... 4/19
  - BEP [ SHEET– 5/10 ] ..... 5/19
  - AUDIO [ SHEET– 6/10 ] ..... 6/19
  - IF [ SHEET– 7/10 ] ..... 7/19
  - LOW-B REGULATOR [ SHEET– 8/10 ] ..... 8/19
  - FREQ_DET [ SHEET– 9/10 ] ..... 9/19
  - TEXT [ SHEET– 10/10 ] ..... 10/19
- POWER_INDI_CONT Circuit
  - POWER [ SHEET– 1/3 ] ..... 11/19
  - INDICATOR [ SHEET– 2/3 ] ..... 12/19
  - CONTROL [ SHEET– 3/3 ] ..... 13/19
- DEF Circuit
  - HORIZONTAL-DEF [ SHEET– 1/2 ] ..... 14/19
  - VERTICAL-DEF [ SHEET– 1/2 ] ..... 15/19
- CRT Circuit ..... 16/19
- TEXT-P2 Circuit ..... 17/19
- DIGITAL-IN Circuit ..... 18/19
- EXT-SP Circuit ..... 19/19

# CIRCUIT BLOCK DIAGRAM



U903B INDICATOR BOARD

U903C CONTROL BOARD

U903A POWER BOARD

BAZOOKA
WOOFER-SPK

U902 SIGNAL BOARD

U905 D-IN BOARD

U906 EXT-SPK BOARD

U904 DEF BOARD

U901 CRT-D BOARD

| SHEET No. | CIRCUIT NAME |
|---|---|
| 1 | CONNECTORS |
| 2 | MICRO |
| 3 | AV |
| 4 | COMB & MCD |
| 5 | BEP |
| 6 | AUDIO |
| 7 | IF |
| 8 | LOW-B REG. |
| 9 | FREQ_DET |
| 10 | TEXT |
| 99 | SUB MATERIALS |

32ZP48P/36ZP48P
SIGNAL (CONNECTORS)
SHEET-1/10

for Production

PB14
5P_2.5mm

QA01
CXP750010-308S

QA01A
SHIELD_COVER

QA61
AT24C256-10PI-2.7

QA02
AT24C64A-10PI-2.7

QR01
MB90096P-232

QA41
TEM2121M

QA02
TEM2121M

QA10
TEM2121M

QA38
TEM2121M

QA40
TEM2121M

QA05
PST9146NL

QA13
2SA1576A

QB92
2SC4081T

QB93
2SA1576A

QB94
2SA1576A

QB81
2SC3326B

QB82
2SC1326B

QB83
2SA1576A

QB95
2SA1576A

QB96
2SA1576A

QV02
2SC4081T

LR01
TRF41R0AF

LR02
TRF41R0AF

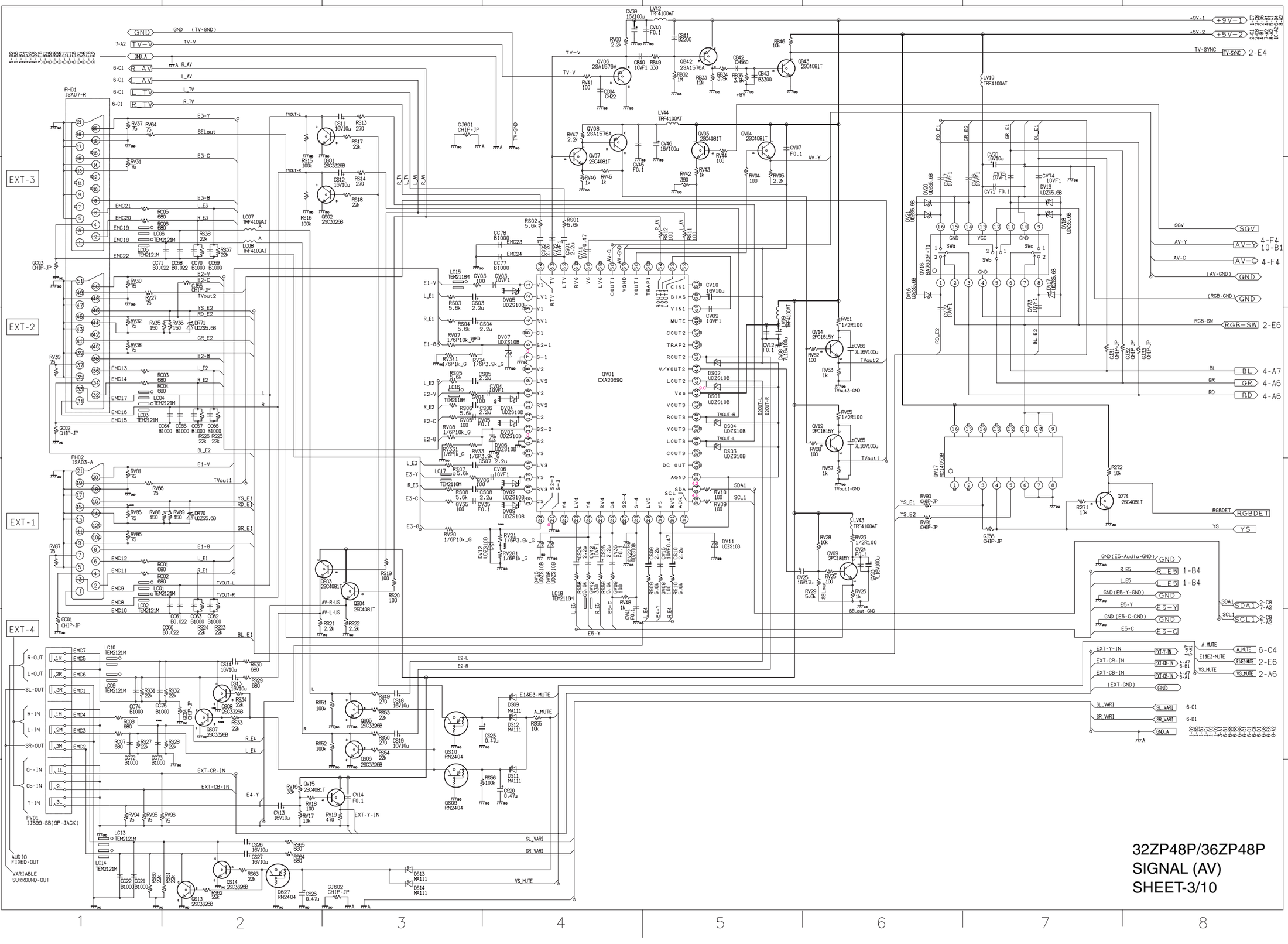
LA01
TRF4100AT

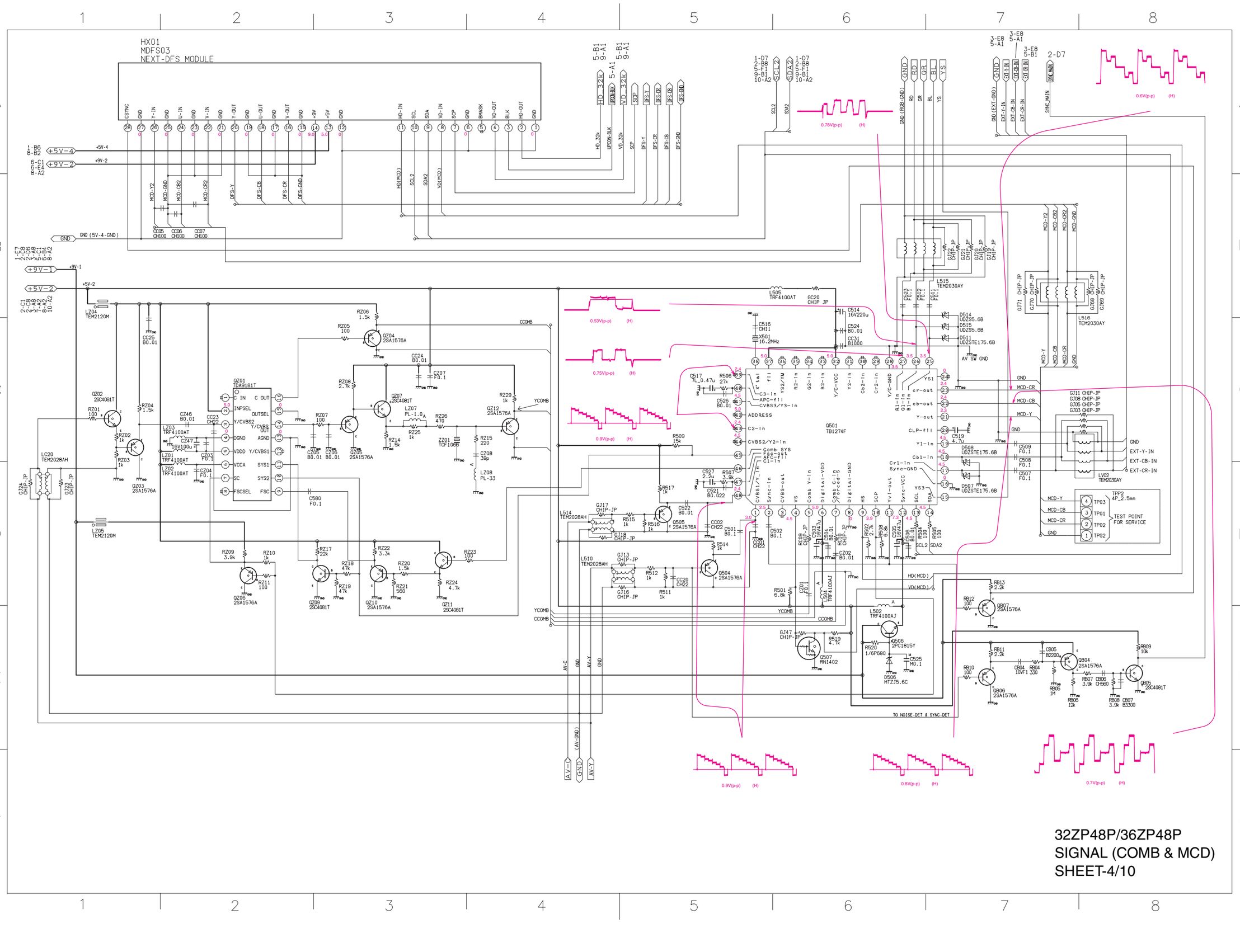
DA42
RT27S.6C

XA03
16.0MHz

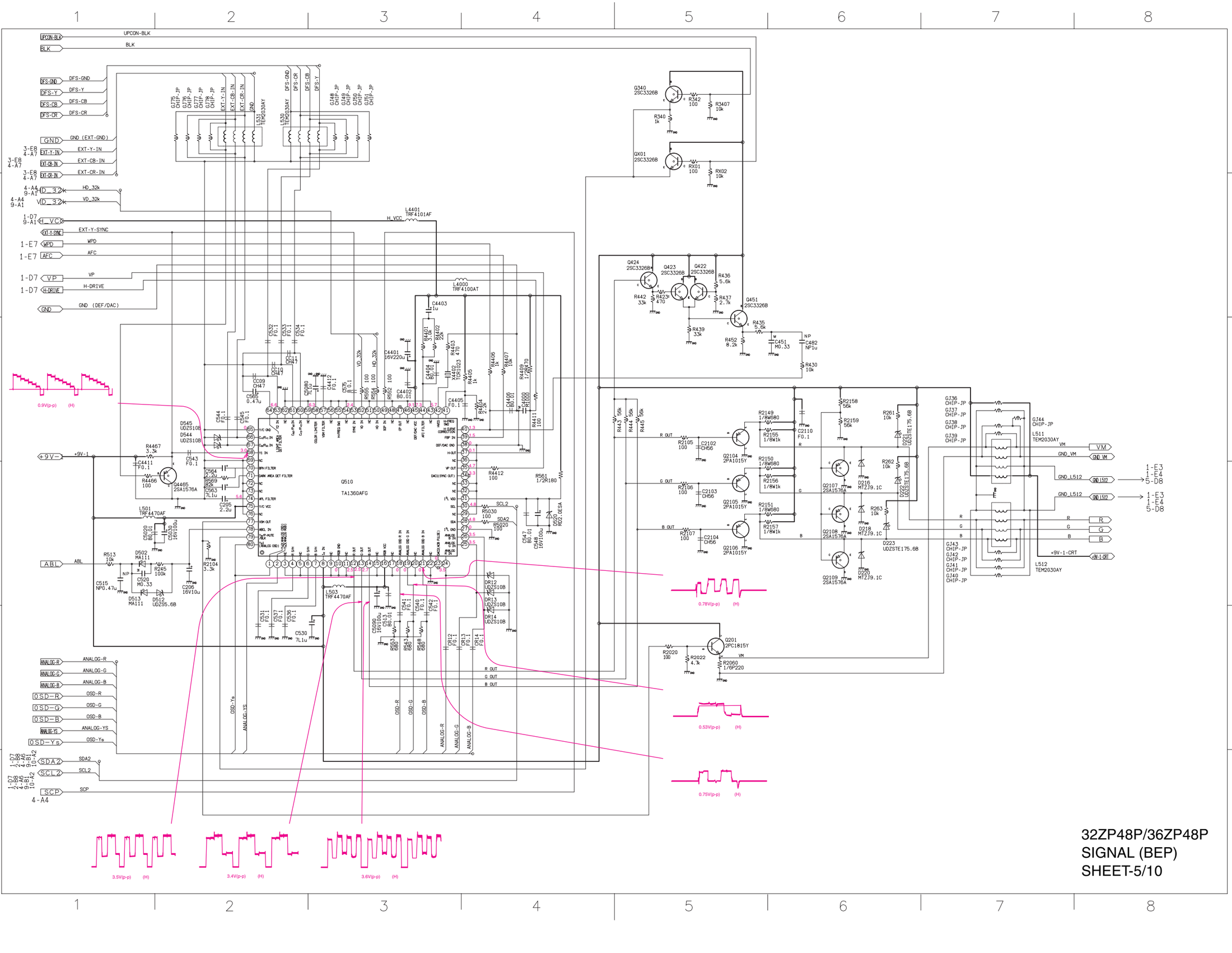
32ZP48P/36ZP48P
SIGNAL (MICRO)
SHEET-2/10

(2/19)

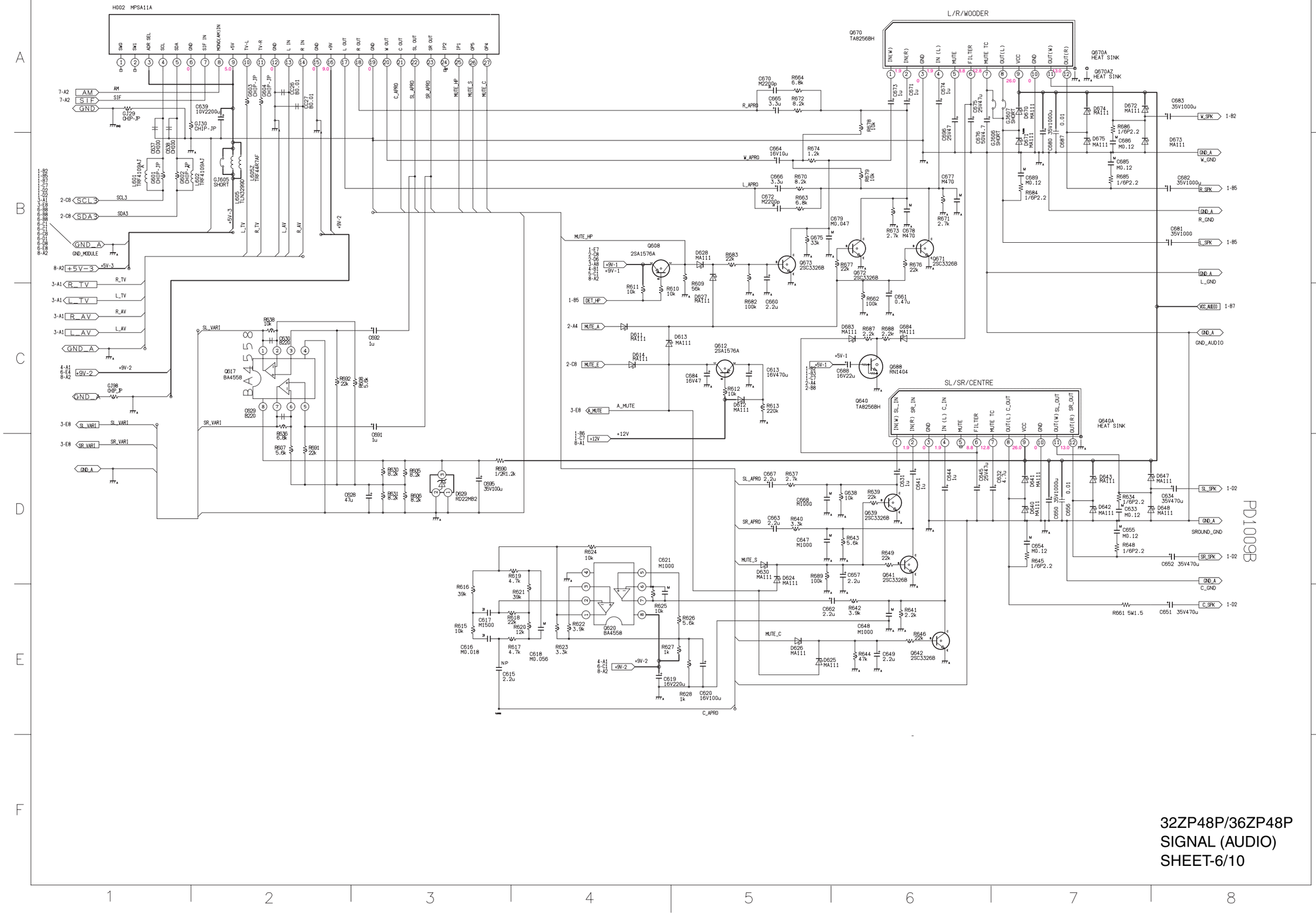

EXT-3
EXT-2
EXT-1
EXT-4
PH01 1SA07-R
PH02 1SA03-A
PV01 IJB99-SB(9P-JACK)
QV01 CXA2069Q
LV10 TRF4100AT
LV42 TRF4100AT
LV44 TRF4100AT
LV43 TRF4100AT
GND (TV-GND)
TV-V
R_AV
L_AV
L_TV
R_TV
SELout
TVout1
TVout2
TVout3-GND
TVout1-GND
SELout-GND
EXT-CR-IN
EXT-CB-IN
EXT-Y-IN
SL_VARI
SR_VARI
VS_MUTE
A_MUTE
E1&E3-MUTE
SDA1
SCL1
RGBDET
YS
TV-SYNC
+9V-1
+5V-2
SGV
AV-Y
AV-C
(AV-GND)
(RGB-GND)
RGB-SW
BL
GR
RD
GND(E5-Audio-GND)
GND(E5-Y-GND)
GND(E5-C-GND)
(EXT-GND)
AUDIO FIXED-OUT
VARIABLE SURROUND-OUT
32ZP48P/36ZP48P
SIGNAL (AV)
SHEET-3/10


HX01
MDFS03
NEXT-DFS MODULE
CSYNC
Y-IN
U-IN
V-IN
Y-OUT
U-OUT
V-OUT
+9V
+5V
HD-IN
SCL
SDA
VD-IN
SCP
BMASK
BLK
HD-OUT
HD_32K
UPCON-BLK
VD_32K
DFS-Y
DFS-CR
DFS-CB
DFS-GND
GND (5V-4-GND)
+9V-1
+5V-2
LZ04 TEM2120M
LZ05 TEM2120M
LC20 TEM2028AH
LZ01 TRF4100AT
LZ02 TRF4100AT
LZ03 TRF4100AT
QZ01 TDA9181LT
QZ02 2SC4081T
QZ03 2SA1576A
QZ04 2SA1576A
QZ05 2SA1576A
QZ06 2SA1576A
QZ07 2SC4081T
QZ08 2SA1576A
QZ09 2SC4081T
QZ10 2SA1576A
QZ11 2SC4081T
QZ12 2SA1576A
YCOMB
CCOMB
AV-C
AV-Y
GND (AV-GND)
Q501 TB1274F
L505 TRF4100AT
L515 TEM2030AY
L516 TEM2030AY
LV02 TEM2030AY
L502 TRF4100AJ
L510 TEM2028AH
L514 TEM2028AH
Q504 2SA1576A
Q505 2SA1576A
Q506 2PC1815Y
Q507 RNI402
QB04 2SA1576A
QB05 2SC4081T
QB06 2SA1576A
QB07 2SA1576A
D506 MTZJ5.6C
AV SW GND
TO NOISE-DET & SYNC-DET
TPP2 4P_2.5mm
TPO3
TPO1
TPO2
TPG2
TEST POINT FOR SERVICE
32ZP48P/36ZP48P
SIGNAL (COMB & MCD)
SHEET-4/10

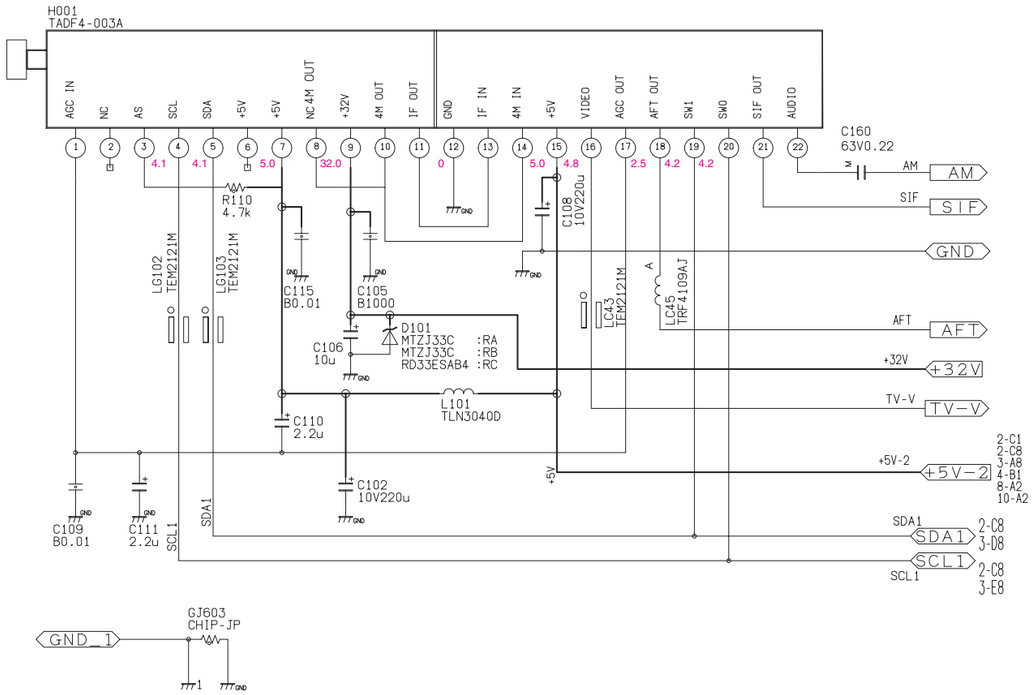
(4/19)


UPCON-BLK
BLK
DFS-GND
DFS-Y
DFS-CB
DFS-CR
GND (EXT-GND)
EXT-Y-IN
EXT-CB-IN
EXT-CR-IN
HD_32k
VD_32k
H_VCC
EXT-Y-SYNC
WPD
AFC
VP
H-DRIVE
GND (DEF/DAC)
L4401 TRF4101AF
L4000 TRF4100AT
Q510 TA1360AFG
L501 TRF4470AF
L503 TRF4470AF
L530 TEM2030AY
L531 TEM2030AY
L511 TEM2030AY
L512 TEM2030AY
Q340 2SC3326B
QX01 2SC3326B
Q424 2SC3326B
Q423 2SC3326B
Q422 2SC3326B
Q451 2SC3326B
Q4465 2SA1576A
Q2104 2PA1015Y
Q2105 2PA1015Y
Q2106 2PA1015Y
Q2107 2SA1576A
Q2108 2SA1576A
Q2109 2SA1576A
Q201 2PC1815Y
0.9V(p-p) (H)
0.78V(p-p) (H)
0.53V(p-p) (H)
0.75V(p-p) (H)
3.5V(p-p) (H)
3.4V(p-p) (H)
3.6V(p-p) (H)
32ZP48P/36ZP48P
SIGNAL (BEP)
SHEET-5/10

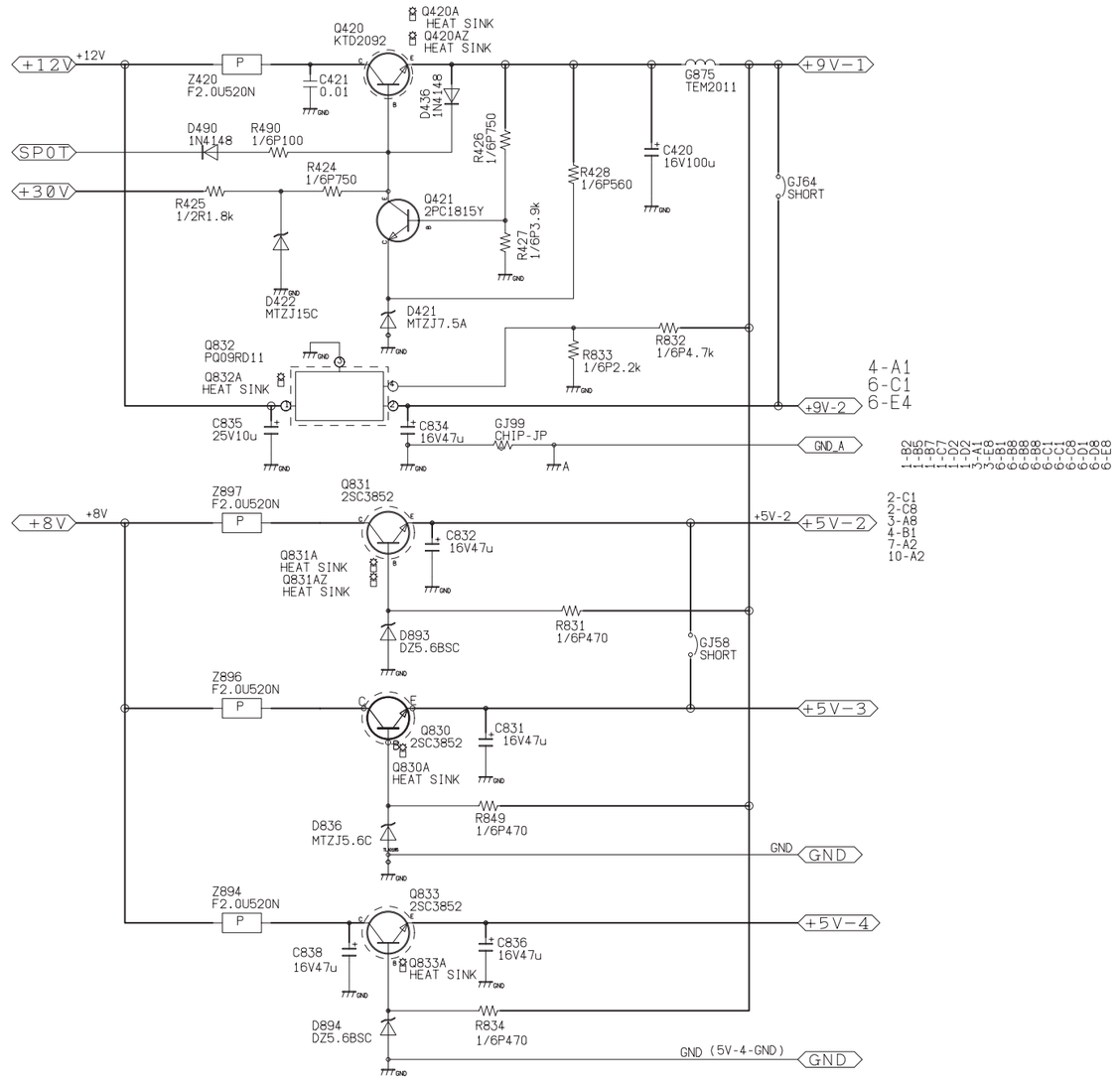
(5/19)


H002 MPSA11A
L/R/WOODER
SL/SR/CENTRE
Q670 TA8256BH
Q640 TA8256BH
Q670A HEAT SINK
Q670AZ HEAT SINK
Q640A HEAT SINK
Q608 2SA1576A
Q612 2SA1576A
Q617 BA4558
Q620 BA4558
Q673 2SC3326B
Q672 2SC3326B
Q671 2SC3326B
Q688 RN1404
Q639 2SC3326B
Q641 2SC3326B
Q642 2SC3326B
AM
SIF
GND
SCL3
SDA3
GND_A
+5V-3
R_TV
L_TV
R_AV
L_AV
+9V-2
SL_VAR1
SR_VAR1
A_MUTE
+12V
MUTE_HP
DET_HP
MUTE_A
MUTE_E
MUTE_S
MUTE_C
W_APR0
L_APR0
R_APR0
SL_APR0
SR_APR0
C_APR0
GND_MODULE
W_SPK
GND_A
W_GND
R_SPK
R_GND
L_SPK
L_GND
VCC_AUDIO
GND_AUDIO
SL_SPK
SROUND_GND
SR_SPK
C_GND
C_SPK
PD1009B
32ZP48P/36ZP48P
SIGNAL (AUDIO)
SHEET-6/10

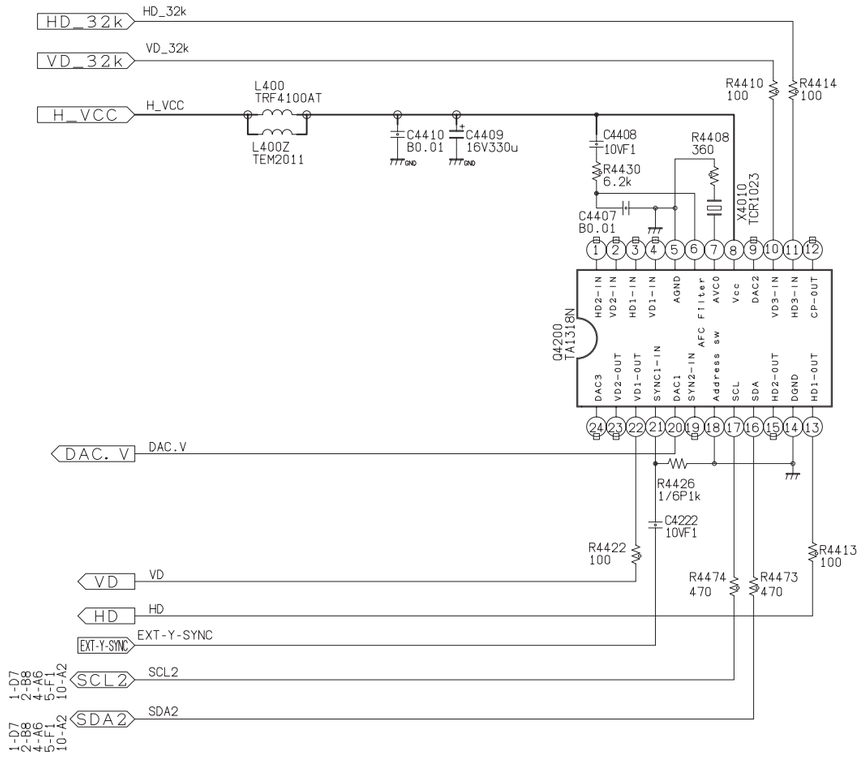
(6/19)



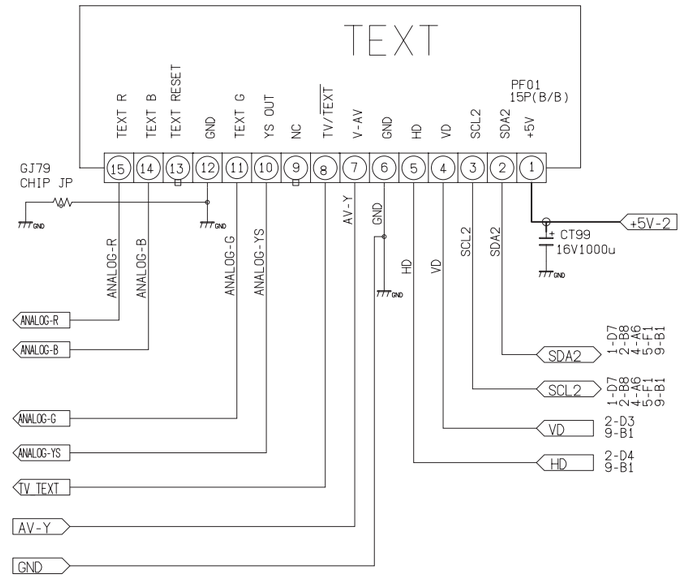

32ZP48P/36ZP48P
SIGNAL (IF)
SHEET-7/10




32ZP48P/36ZP48P
SIGNAL (LOW-B REGULATOR)
SHEET-8/10

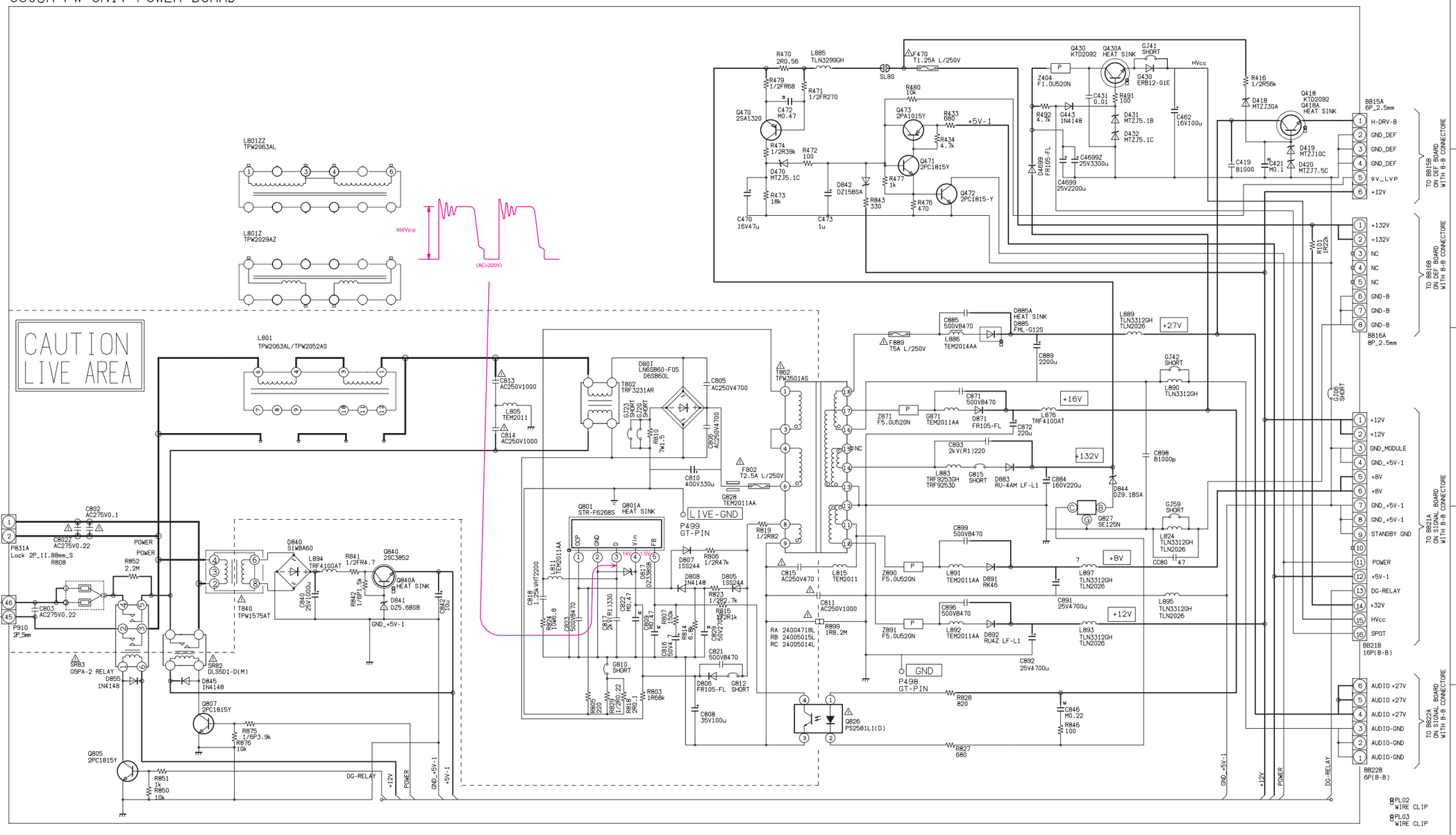



32ZP48P/36ZP48P
SIGNAL (FREQ_DET)
SHEET-9/10



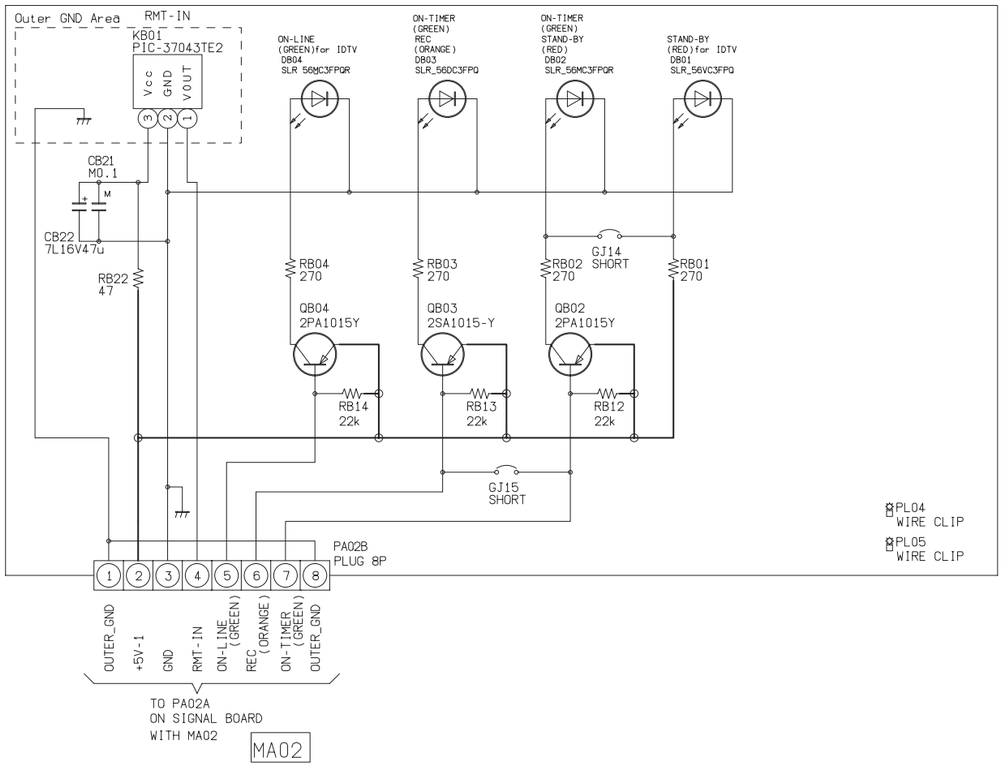

32ZP48P/36ZP48P
SIGNAL (TEXT)
SHEET-10/10

# U903A PW UNIT POWER BOARD

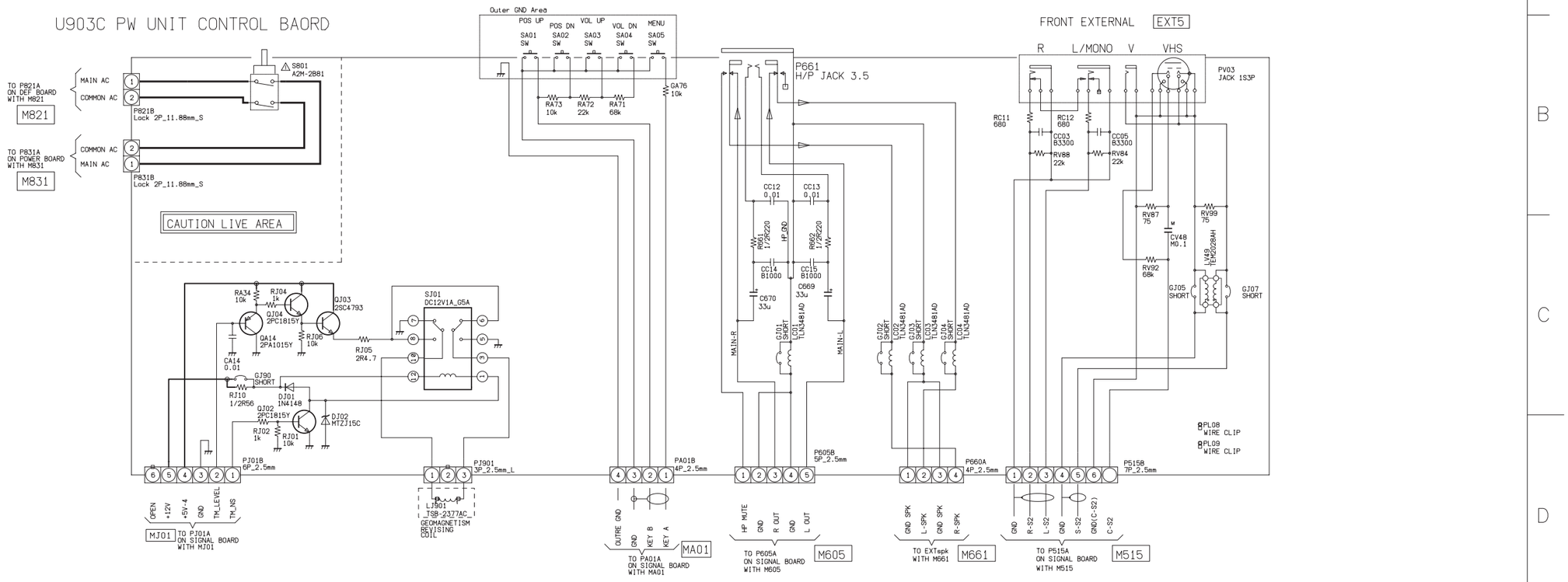



32ZP48P/36ZP48P
POWER_INDI_CONT (POWER)
SHEET-1/3

# U903B PW UNIT INDICATOR BAORD

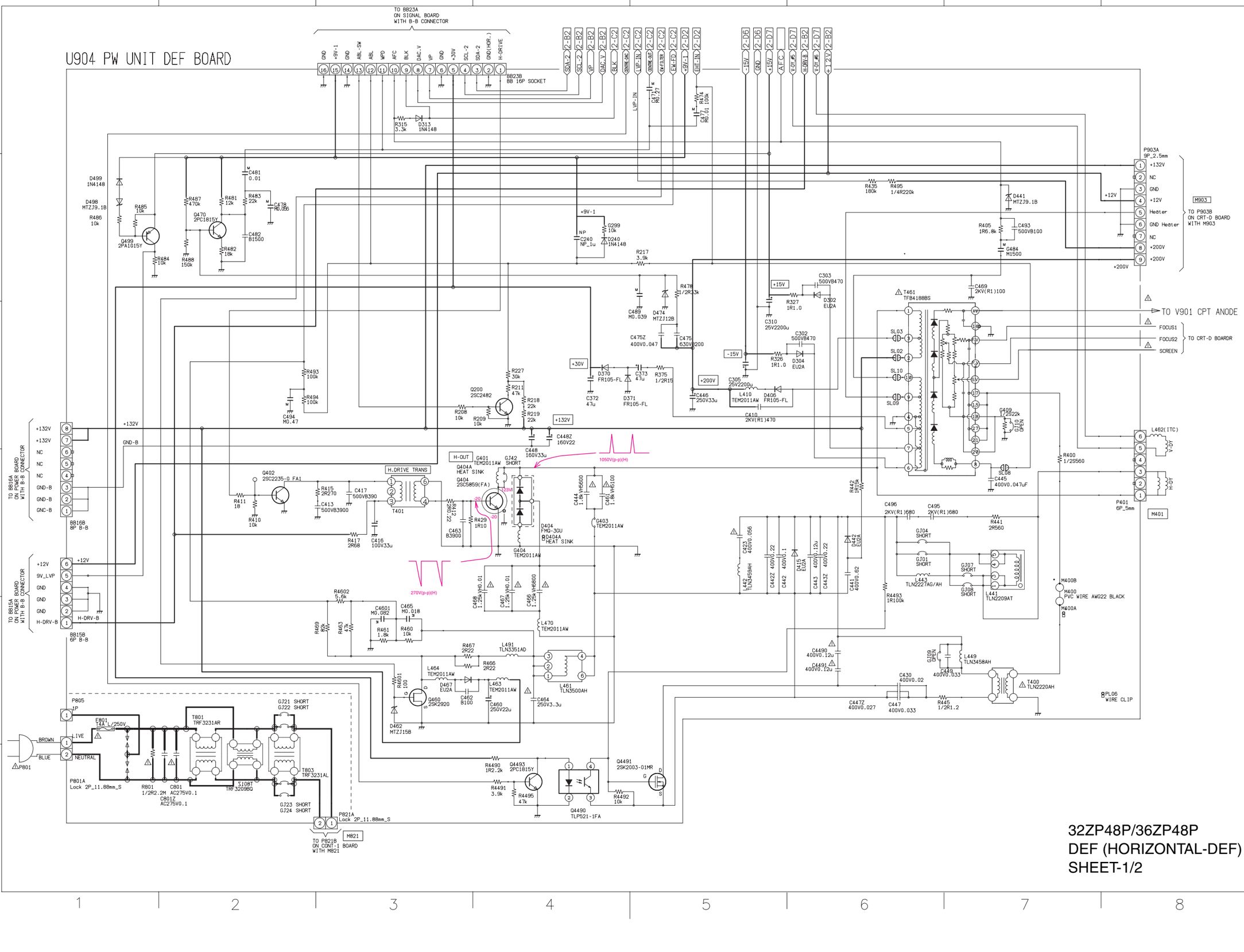



32ZP48P/36ZP48P
POWER_INDI_CONT (INDICATOR)
SHEET-2/3



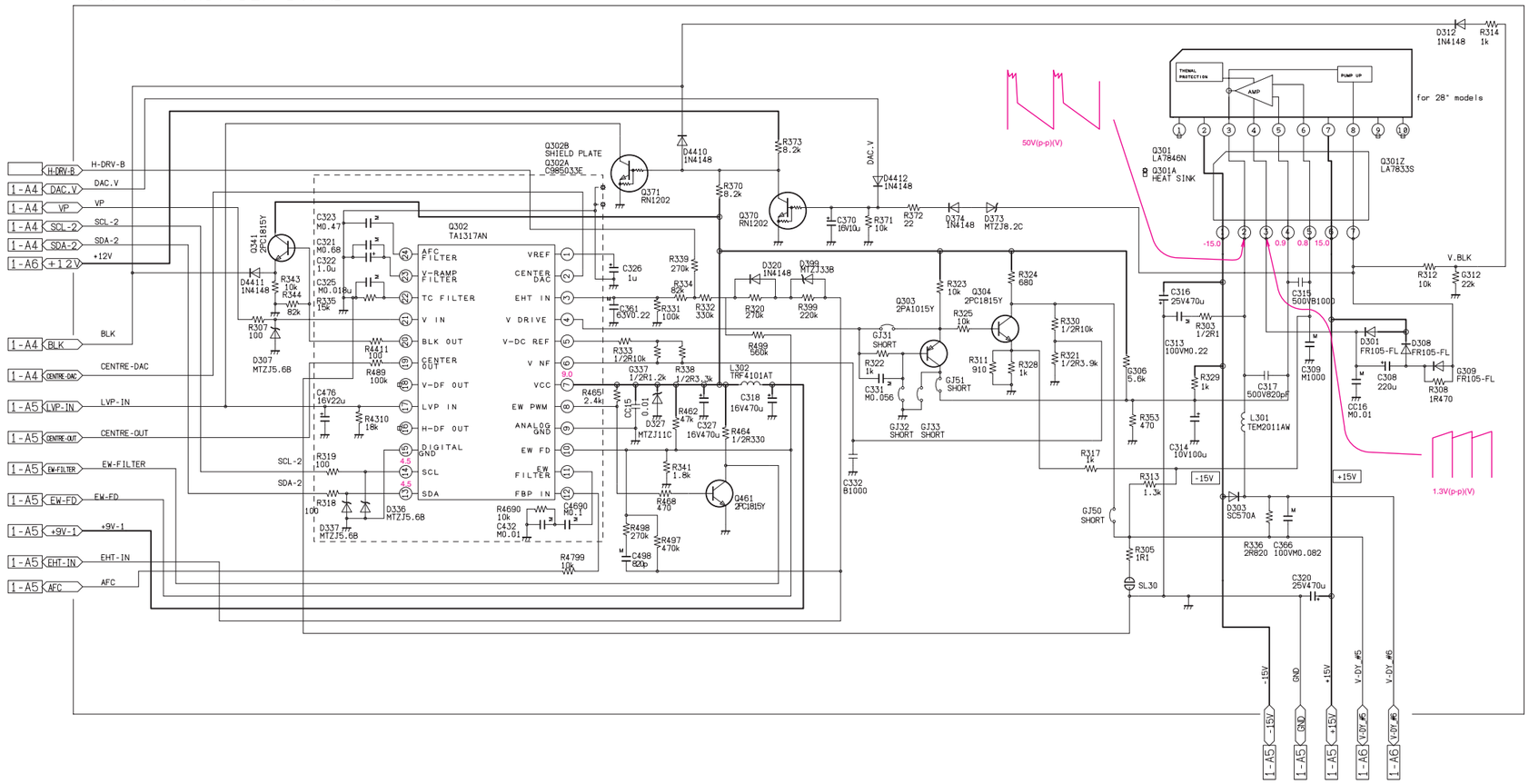

32ZP48P/36ZP48P
POWER_INDI_CONT (CONTROL)
SHEET-2/3

# U904 PW UNIT DEF BOARD



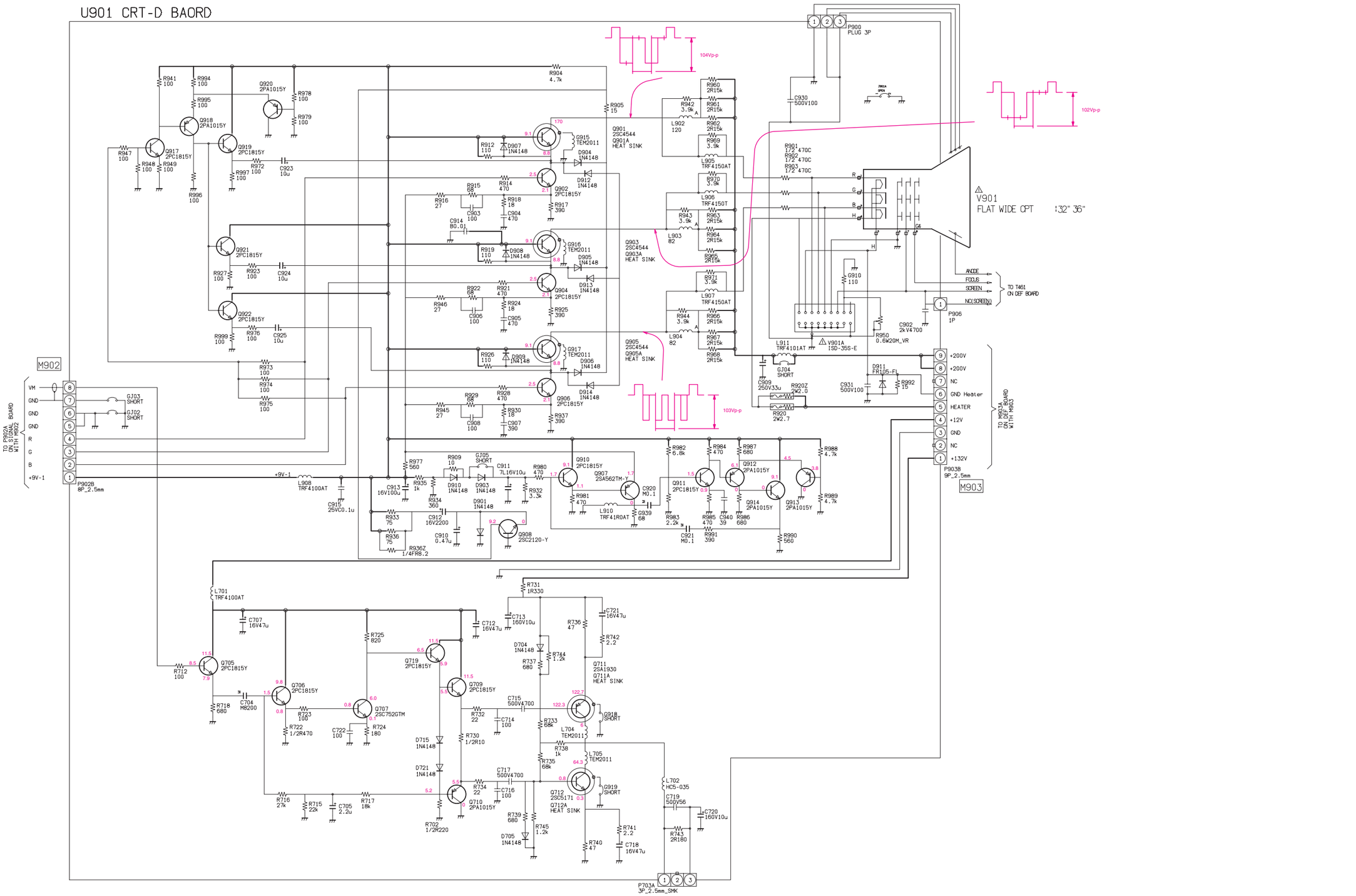

32ZP48P/36ZP48P
DEF (HORIZONTAL-DEF)
SHEET-1/2

# U904 PW UNIT DEF BOARD

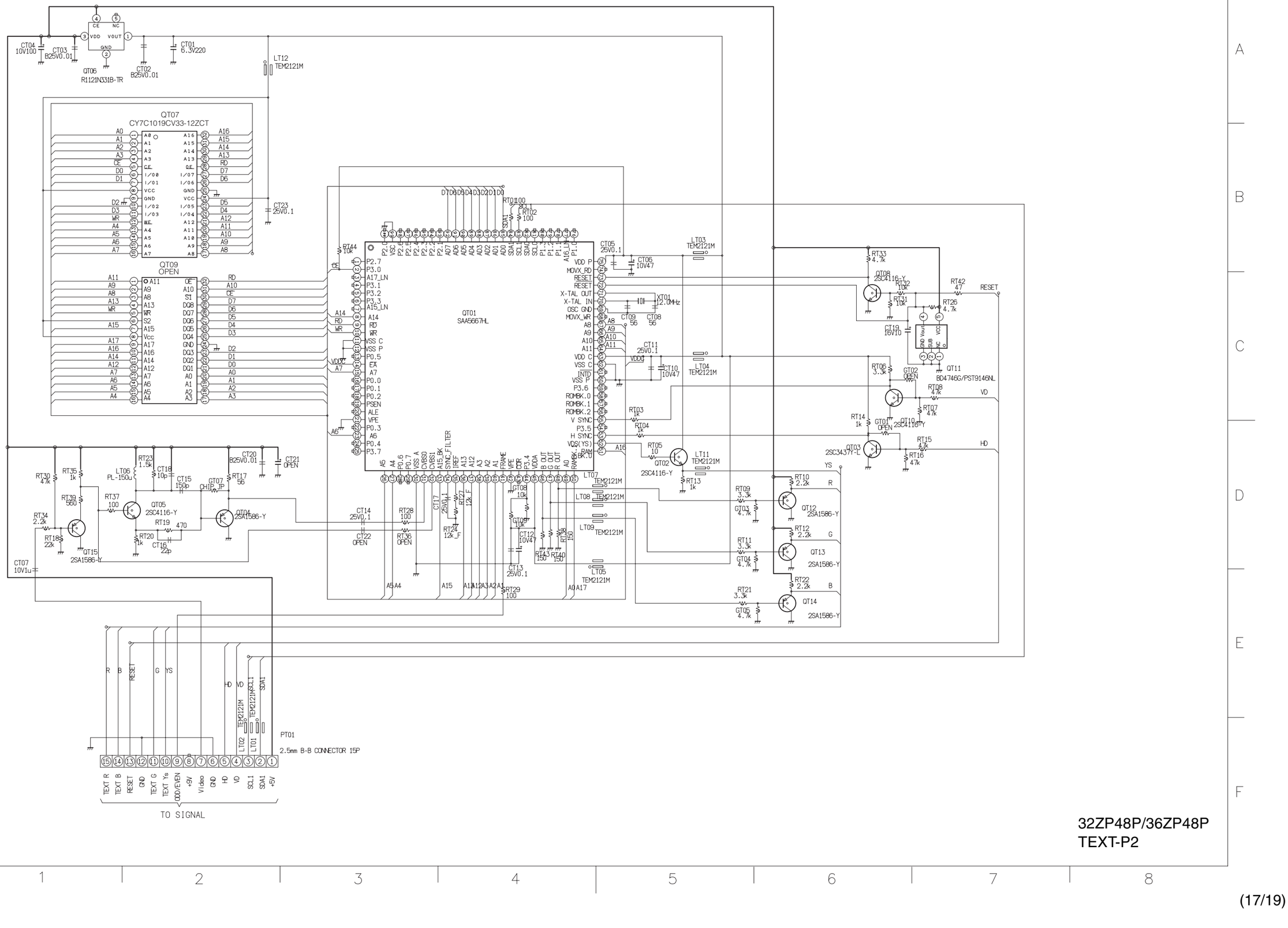



32ZP48P/36ZP48P
DEF (VERTICAL-DEF)
SHEET-2/2

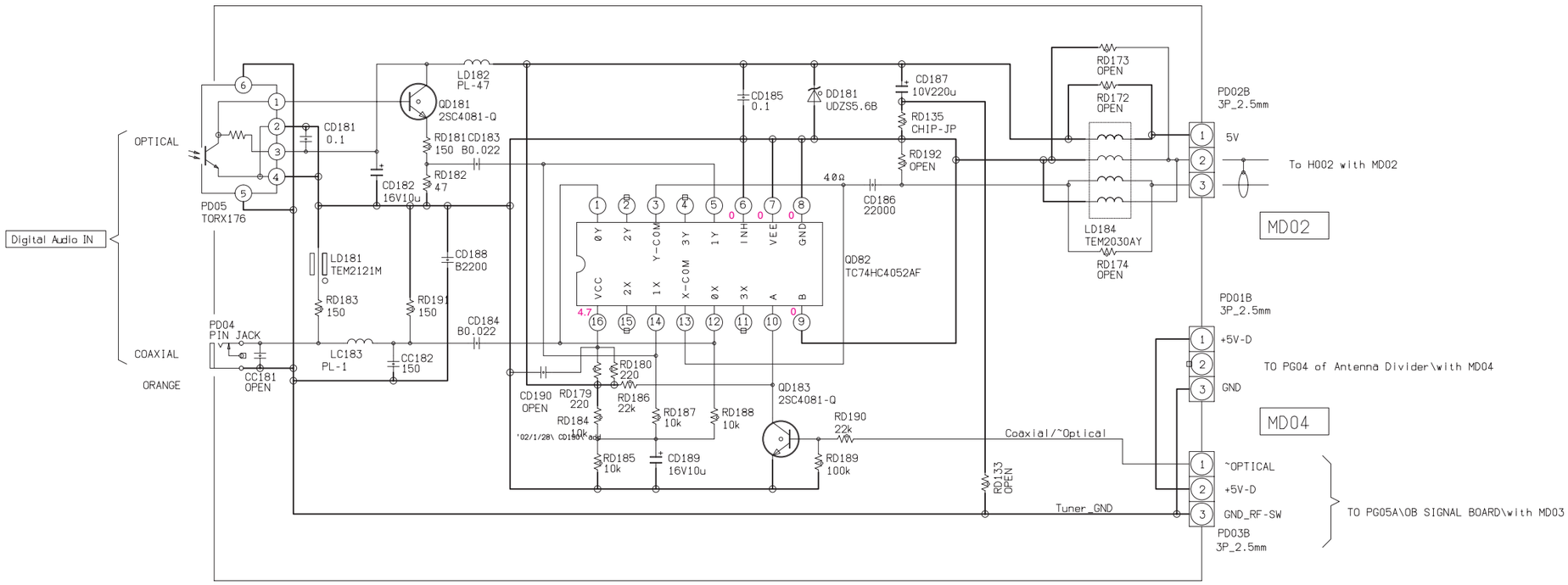
# U901 CRT-D BAORD



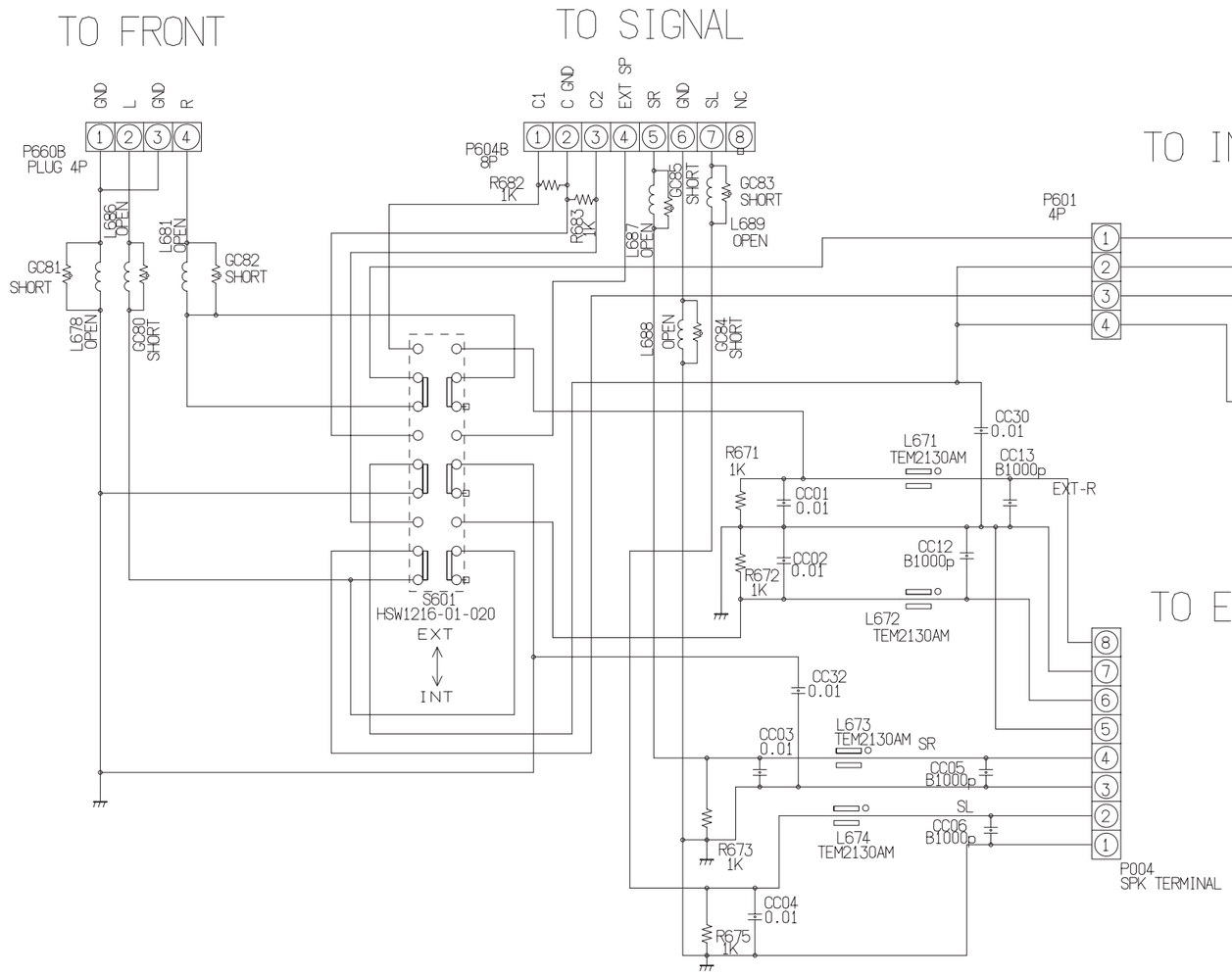

32ZP48P/36ZP48P
CRT


QT01
SAA5667HL
QT06
R1121N331B-TR
QT07
CY7C1019CV33-12ZCT
QT09
OPEN
QT15
2SA1586-Y
QT05
2SC4116-Y
QT04
2SA1586-Y
QT02
2SC4116-Y
QT03
2SC3437Y-L
QT08
2SC4116-Y
QT11
BD4746G/PST9146NL
QT10
2SC4116-Y
QT12
2SA1586-Y
QT13
2SA1586-Y
QT14
2SA1586-Y
PT01
2.5mm B-B CONNECTOR 15P
TEXT R
TEXT B
RESET
GND
TEXT G
TEXT Ys
COMP/EVEN
+9V
Video
GND
HD
VD
SCL1
SDA1
+5V
TO SIGNAL
32ZP48P/36ZP48P
TEXT-P2

# DIGITAL-IN




32ZP48P/36ZP48P
DIGITAL-IN




32ZP48P/36ZP48P
EXT-SP